

N90845.AR.001877  
NWIRP BETHPAGE  
5090.3a

VALIDATED DATA PACKAGE, SI3999, NWIRP BETHPAGE NY  
6/26/2015  
KATAHDIN ANALYTICAL SERVICES

## ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services  
 CITY/STATE Scarborough, Maine

CASE NO. WE15 SDG NO. S13999 SDG NOS. TO FOLLOW \_\_\_\_\_  
 SAS NO. \_\_\_\_\_

CONTRACT NO. \_\_\_\_\_  
 SOW NO. \_\_\_\_\_

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
1. <u>Inventory Sheet</u> (Form DC-2) (Do not Number)	<u>0066001</u>	<u>0000005</u>	/	
2. <u>SDG Case Narrative</u>	<u>0000008</u>	<u>0000009</u>	/	
3. <u>SDG Cover Sheet/Traffic Report</u>	<u>0000006</u>	<u>0000007</u>	/	
4. <u>Volatiles Data</u>				
a. QC Summary				
System Monitoring Compound Summary (Form II)	<u>00660014</u>	<u>0000016</u>	/	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)	<u>0000017</u>	<u>0000017</u>	/	
GC/MS Instrument Performance Check (Form V VOA)	<u>0000018</u>	<u>0000018</u>	/	
Internal Standard Area and RT Summary (Form VIII VOA)	<u>0000019</u>	<u>0000020</u>	/	
b. Sample Data	<u>0000021</u>	<u>0000035</u>	/	
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-				
Reconstructed total ion chromatograms (RIC) for each sample			/	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			/	
Quantitation reports			/	
Mass Spectra of all reported TICs with three best library matches			/	
c. Standards Data (All Instruments)	<u>00660036</u>	<u>00660076</u>		
Initial Calibration Data (Form VI VOA-1, VOA-2)			/	
RICs and Quan Reports for all Standards			/	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			/	
RICs and Quantitation Reports for all Standards			/	
d. Raw QC Data				
BFB	<u>0000077</u>	<u>0000079</u>	/	
Blank Data	<u>0000080</u>	<u>0000085</u>	/	
Matrix Spike/Matrix Spike Duplicate Data	<u>0000086</u>	<u>0000091</u>	/	

## ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO.	<u>WTC15</u>	SDG NO.	<u>513999</u>	SDG NOS. TO FOLLOW	
				SAS NO.	

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
<b>5. Semivolatiles Data</b>				
a. QC Summary			<u>NA</u>	<u>NA</u>
Surrogate Percent Recovery Summary (Form II SV)				<u>NA</u>
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
<b>6. Pesticides Data</b>				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II				
MS/MSD Duplicate Summary (Form III PEST)				
Method Blank Summary (Form IV PEST)				

## ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO.	<u>WEIS</u>	SDG NO.	<u>S13999</u>	SDG NOS. TO FOLLOW	
				SAS NO.	

	PAGE NOS	CHECK		
	FROM	TO	LAB	EPA
6. <u>Pesticides Data</u> (Cont.)				
b. Sample Data	<u>NA</u>	<u>NA</u>		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			<u>NA</u>	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data	<u>NA</u>	<u>NA</u>		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data	<u>NA</u>	<u>NA</u>	<u>✓</u>	
Blank Data	<u>NA</u>	<u>NA</u>	<u>✓</u>	
Matrix Spike/Matrix Spike Duplicate Data	<u>NA</u>	<u>NA</u>	<u>✓</u>	

## ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO.	WE15	SDG NO.	SI3999	SDG NOS. TO FOLLOW	
				SAS NO.	

	PAGE NOS FROM	PAGE NOS TO	CHECK LAB	CHECK EPA
6. <u>Pesticides Data</u> (Cont.)				
e. Raw GPC Data	NA	NA	NA	
f. Raw Florisil Data	↓	↓	↓	
7. <u>Miscellaneous Data</u>				
8260 — Original preparation and analysis forms or of preparation and analysis logbook pages	0000092	0000093	✓	
Internal sample and sample extract transfer chain-of-custody records	NA	NA	NA	
Screening records	↓	↓	↓	
All instrument output, including strip charts from screening activities (describe or list)				
8. <u>EPA Shipping/Receiving Documents</u>				
Airbills (No. of shipments _____)	0000012	0000012	✓	
Chain-of-Custody Records	NA	NA	NA	
Sample Tags	↓	↓	↓	
Sample Log-in Sheet (Lab & DC1)	0000011	0000011	✓	
Miscellaneous Shipping/Receiving Records (describe or list)	0000013	0000013	✓	
Sample Receipt Condition Report				
Login Chain of Custody				
9. <u>Internal Lab Sample Transfer Records and Tracking Sheets</u> (describe or list)				
	NA	NA	NA	
10. <u>Other Records</u> (describe or list)				
Telephone Communication Log	✓	✓	✓	
11. <u>Comments:</u>				

## ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO.	<u>WE15</u>	SDG NO.	<u>813999</u>	SDG NOS. TO FOLLOW	_____
				SAS NO.	_____

Completed by: Alecia Womack (Signature) Heather Menz/DM (Printed Name/Title) 6-26-15 (Date)

Verified by: \_\_\_\_\_ (Signature) \_\_\_\_\_ (Printed Name/Title) \_\_\_\_\_ (Date)  
(CLP Lab)

Audited by: \_\_\_\_\_ (Signature) \_\_\_\_\_ (Printed Name/Title) \_\_\_\_\_ (Date)  
(EPA)

0000005

**ENSAFE**  
**NAVY CLEAN WE15-03-06**  
**NWIRP BETHPAGE, NY**  
**SI3999**

**KATAHDIN ANALYTICAL SERVICES, LLC.**  
**600 TECHNOLOGY WAY**  
**SCARBOROUGH, ME 04074**

000006

# **SAMPLE DATA PACKAGE**

0000007



**SDG NARRATIVE  
KATAHDIN ANALYTICAL SERVICES  
ENSAFE  
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY  
SI3999**

**Sample Receipt**

The following samples were received on June 10, 2015 and were logged in under Katahdin Analytical Services work order number SI3999 for a hardcopy due date of June 29, 2015.

KATAHDIN	AECOM
<u>Sample No.</u>	<u>Sample Identification</u>
SI3999-1	VPB157-TB060915
SI3999-2	VPB157-GW-060815-728-730
SI3999-3	VPB157-GW-060815-738-740

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Two of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the characters "VPB" and "GW" in the client ID for samples SI3999-2 and -3 were omitted on all forms.

Sample analyses have been performed by the methods as noted herein.

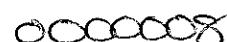
Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

**Organics Analysis**

The samples of Work Order SI3999 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

**8260B Analysis**

The initial calibration analyzed on the T instrument on 06/11/15 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analyte



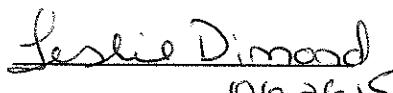
chloroethane failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. This compound was calibrated using the average model.

The target analyte methylene chloride was detected between the LOD and LOQ in the method blank WG164635-9. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds ½ the reporting limit. Since methylene chloride was not detected in any of the associated samples, the samples were not reanalyzed.

The vials of samples SI3999-2 and -3 contained mostly soil and not very much water, so all three vials of each sample were decanted, composited into one vial and due to limited volume, analyzed at dilutions of 1:8. Consequently, the samples detections limits were elevated accordingly.

There were no other protocol deviations or observations noted by the organics laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.



Leslie Dimond

06.26.15

Leslie Dimond  
Quality Assurance Officer

## **Katahdin Analytical Services, Inc.**

### **Manual Integration Codes For GC/MS, GC, HPLC and/or IC**

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

## Katahdin Analytical Services, Inc.

## Sample Receipt Condition Report

Client: <i>Bes Con</i>	KAS PM: <i>D JO</i>	Sampled By: <i>Client</i>
Project:	KIMS Entry By: <i>AP</i>	Delivered By: <i>FedEx</i>
KAS Work Order#: <i>SI 3999-51304000 AP</i>	KIMS Review By: <i>JP</i>	Received By: <i>AP</i>
SDG #:	Cooler: <u>1</u> of <u>1</u>	Date/Time Rec.: <i>06/01/15 0905</i>

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	/				
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.					Temp (°C): <i>3.9</i>
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles: <b>Aqueous:</b> No bubble larger than a pea?	/				
<b>Soil/Sediment:</b> Received in airtight container? Received in methanol? Methanol covering soil? D.I. Water - Received within 48 hour HT?				/	
<b>Air:</b> Refer to KAS COC for canister/flow controller requirements.			✓ if air included		
7. Trip Blank present in cooler?	/				
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9 Cyanide – pH >12				/	

\* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

51399

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD										COC No.	Page	L of I			
Project Name: NWT RP Belpage					PO No.					Project No. 6CZ6S26 Phase F1, WES					
Site Location: VPB157		Sample Analysis Requested (Enter number of containers for each test)													
RESOLUTION CONSULTANTS		CTO No.		RC Project Manager: Brian Caldwell		(3) →									
						Extra Volume for MS/MSD									
						Hold									
Sampler/Site Phone# Michael Zobel / 631-561-1340															
Lab Name: Katchadin Analytical				Turnaround Time(specify): Standard											
Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (hhmm)	Matrix Code	Sample Type (1)	Field Filtered (Y/N)	Total No. of Containers							
								10							
	VPB157-TB060915		6-5-15	0900	WQ	TB	N	3							
	VPB157-GW-060815-728730		6-8-15	1240	WG	N	N	3							
	VPB157-GW-060815-738740		6-8-15	1315	WG	N	N	3							
Field Comments:										Lab Comments:					
Relinquished by (signature)		Date	Time	Received by (signature)		Date	Time	Number of coolers in shipment:							
1 Michael Zobel		6-9-15	1400	i		6/09/15	1400	Samples Iced? (check) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
2 Michael Zobel		060915	1405	i		6/09/15	1405	Method of Shipment: Fedex							
3 Michael Zobel		06/09/15	1405	i		6/09/15	1405	Airbill No:							
								Date Shipped: 6/09/15							

- (1) **AQ**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IDW**=Concrete, **IDW**=IDW Solid, **IDW**=IDW soil, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SW**=Swab or wipe, **TA**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WR**=Ground water effluent, **WS**=Surface water, **WW**=Waste water
- (2) Sample Type: **AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk
- (3) Preservative added: **HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO** preservative added leave blank



## Katahdin Analytical Services

### Login Chain of Custody Report (Ino1)

Page: 1 of 1

**Login Number:** SI3999

Account: ENSAFE001  
ENSAFE

Web

Project: AECOM-BETHPAGE  
NWIRP Bethpage, NY

**Primary Report Address:**

Dana Miller  
EnSafe  
5724 Summer Trees Drive

Memphis, TN 38134

**Primary Invoice Address:**

Accounts Payable  
EnSafe  
5724 Summer Trees Drive

Memphis, TN 38134

**Report CC Addresses:**

**Invoice CC Addresses:**

### Login Information:

ANALYSIS INSTRUCTIONS : Form 1's due in 48 hrs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. Must use soxhlet for PCB extraction.

CHECK NO. :  
CLIENT PO# : 16518  
CLIENT PROJECT MANAGE : Brian Caldwell  
CONTRACT :  
COOLER TEMPERATURE : 3.9  
DELIVERY SERVICES : FedEx  
EDD FORMAT : KAS135QC-CSV  
LOGIN INITIALS : AP  
PM : JO  
PROJECT NAME : Navy Clean WE15-03-06 NWIRP Bethpage, NY  
QC LEVEL : IV  
REGULATORY LIST :  
REPORT INSTRUCTIONS : Send Hardcopy and CD to Dana. Upload PDF and EDD to SDS folder. Email level 2 report to Dana. Email invoice to purchasing@ensafe.com.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive SDG ID Date SDG STATUS	Verbal PR Date	Due Date	Mailed
SI3999-1	VPB157-TB060915	09-JUN-15 00:00	10-JUN-15	12-JUN-15	29-JUN-15	
Matrix Aqueous	Product S SW8260-S		Hold Date (shortest) 23-JUN-15	Bottle Type 40mL Vial+HCl	Bottle Count	Comments
SI3999-2	157-060815-728-730	08-JUN-15 12:40	10-JUN-15	12-JUN-15	29-JUN-15	
Matrix Aqueous	Product S SW8260-S		Hold Date (shortest) 22-JUN-15	Bottle Type 40mL Vial+HCl	Bottle Count	Comments VPB157-GW-060815-728-730
SI3999-3	157-060815-738-740	08-JUN-15 15:15	10-JUN-15	12-JUN-15	29-JUN-15	
Matrix Aqueous	Product S SW8260-S		Hold Date (shortest) 22-JUN-15	Bottle Type 40mL Vial+HCl	Bottle Count	Comments VPB157-GW-060815-738-740

Total Samples: 3

Total Analyses: 3

of  
06.11.15

0000013

# **VOLATILES DATA**

## **QC Summary Section**



The logo consists of the word "nelac" in a bold, lowercase, sans-serif font, enclosed within a dark grey circle. Above the circle, the words "ACCREDITED IN ACCORDANCE WITH" are written in a smaller, uppercase, sans-serif font, following the curve of the top edge.

Cert No E87604

## **Form 2**

### **System Monitoring Compound Recovery**

**Lab Name:** Katahdin Analytical Services  
**Lab Code:** KAS

**Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY    **Matrix:** AQ  
**SDG:** SI3999

Client Sample ID	Lab Sample ID	Col. ID BFB	# DBF	# DCA	# TOL	#
VPB157-TB060915	SI3999-1	104.	112.	113.	111.	
157-060815-728-730	SI3999-2DL	98.8	108.	112.	107.	
157-060815-738-740	SI3999-3DL	98.2	106.	110.	106.	
Laboratory Control S	WG164633-8	96.2	101.	101.	105.	
Method Blank Sample	WG164633-9	105.	111.	113.	113.	

## QC Limits

DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

# = Column to be used to flag recovery limits.

\* = Values outside of contract required QC limits.

D= System Monitoring Compound diluted out.

## Form 4

### Method Blank Summary - VOA

**Lab Name :** Katahdin Analytical Services

**SDG :** SI3999

**Project :** Navy Clean WE15-03-06 NWIRP Bethpage, **Lab Sample ID :** WG164633-9

**Lab File ID :** T3820.D

**Date Analyzed :** 11-JUN-15

**Instrument ID :** GCMS-T

**Time Analyzed :** 21:19

**Heated Purge :** No

This Method Blank applies to the following samples, LCS, MS and MSD:

<b>Client Sample ID</b>	<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
Laboratory Control S	WG164633-8	T3817.D	06/11/15	19:33
VPB157-TB060915	SI3999-1	T3822.D	06/11/15	22:30
157-060815-728-730	SI3999-2DL	T3823.D	06/11/15	23:05
157-060815-738-740	SI3999-3DL	T3824.D	06/11/15	23:41

## Form 5

### Volatile Organic Instrument Performance Check

**Lab Name :** Katahdin Analytical Services                    **SDG :** SI3999  
**Project :** Navy Clean WE15-03-06 NWIRP Bethpage,    **Date Analyzed :** 11-JUN-15  
**Lab File ID :** TB909.D    **Time Analyzed :** 11:44  
**Instrument ID :** GCMS-T                                        **Heated Purge :** No

<b>m/e</b>	<b>Ion Abundance Criteria</b>	<b>% Relative Abundance</b>	
50	15.0 - 40.0% of mass 95	16.1	
75	30.0 - 60.0% of mass 95	45.7	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	0.6	0.66 <sup>1</sup>
174	Greater than 50.0% of mass 95	88.7	
175	5.0 - 9.0% of mass 174	5.7	6.44 <sup>1</sup>
176	95.0 - 101.0% of mass 174	85.0	95.88 <sup>1</sup>
177	5.0 - 9.0% of mass 176	5.2	6.11 <sup>2</sup>

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

<b>Client Sample ID</b>	<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
Initial Calibration	WG164633-4	T3807.D	06/11/15	13:22
Initial Calibration	WG164633-3	T3808.D	06/11/15	13:57
Initial Calibration	WG164633-2	T3809.D	06/11/15	14:32
Initial Calibration	WG164633-6	T3811.D	06/11/15	15:42
Initial Calibration	WG164633-5	T3812.D	06/11/15	16:17
Initial Calibration	WG164633-1	T3815.D	06/11/15	18:22
Laboratory Control S	WG164633-8	T3817.D	06/11/15	19:33
Independent Source	WG164633-7	T3817A.D	06/11/15	19:33
Method Blank Sample	WG164633-9	T3820.D	06/11/15	21:19
VPB157-TB060915	SI3999-1	T3822.D	06/11/15	22:30
157-060815-728-730	SI3999-2DL	T3823.D	06/11/15	23:05
157-060815-738-740	SI3999-3DL	T3824.D	06/11/15	23:41

## Form 8

### Internal Standard Area and RT Summary

**Lab Name :** Katahdin Analytical Services  
**Project :** Navy Clean WE15-03-06 NWIR  
**Lab ID :** WG164633-4  
**Lab File ID :** T3807.D

**SDG:** SI3999  
**Analytical Date:** 06/11/15 13:22  
**Instrument ID:** GCMS-T

	PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
Std .	627820		7.71		986077		8.39		862754		12.35	
Upper Limit	1255640		8.21		1972154		8.89		1725508		12.85	
Lower Limit	313910		7.21		493038.5		7.89		431377		11.85	
Client Sample ID	Lab Sample ID											
Laboratory Control S	WG164633-8	632200	7.71		978663	8.39			860913	12.35		
Method Blank Sample	WG164633-9	566070	7.71		852435	8.39			812482	12.35		
VPB157-TB060915	SI3999-1	545250	7.71		848186	8.39			790110	12.35		
157-060815-728-730	SI3999-2DL	571149	7.71		892296	8.40			826454	12.35		
157-060815-738-740	SI3999-3DL	587609	7.71		908455	8.39			838683	12.35		

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

## Form 8

### Internal Standard Area and RT Summary

**Lab Name :** Katahdin Analytical Services  
**Project :** Navy Clean WE15-03-06 NWIR  
**Lab ID :** WG164633-4  
**Lab File ID :** T3807.D

**SDG:** SI3999  
**Analytical Date:** 06/11/15 13:22  
**Instrument ID:** GCMS-T

**1,4-DICHLOROBENZENE-D4**

	Area #	RT #
Std .	481993	15.69
Upper Limit	963986	16.19
Lower Limit	240996.5	15.19

Client Sample ID      Lab Sample ID

Laboratory Control S	WG164633-8	467309	15.69
Method Blank Sample	WG164633-9	437151	15.69
VPB157-TB060915	SI3999-1	435072	15.69
157-060815-728-730	SI3999-2DL	445618	15.69
157-060815-738-740	SI3999-3DL	453584	15.69

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

## **Sample Data Section**

## **KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS**

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

- U** Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

- \* Compound recovery outside of quality control limits.

- D** Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

- E** Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

- J** Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

- J** Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

- B** Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

- C** Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

- L** Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

- M** Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

- N** Presumptive evidence of a compound based on a mass spectral library search.

- A** Indicates that a tentatively identified compound is a suspected aldol-condensation product.

- P** Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

## **Katahdin Analytical Services, Inc.**

### **Manual Integration Codes For GC/MS, GC, HPLC and/or IC**

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

## Report of Analytical Results

<b>Client:</b> ENSAFE		<b>Sample Date:</b> 09-JUN-15		<b>Analysis Date:</b> 11-JUN-15				
<b>Lab ID:</b> SI3999-1		<b>Received Date:</b> 10-JUN-15		<b>Analyst:</b> EME				
<b>Client ID:</b> VPB157-TB060915		<b>Extract Date:</b> 11-JUN-15		<b>Analysis Method:</b> SW846 8260C				
<b>Project:</b> Navy Clean WE15-03-06 NWIRP Bethq		<b>Extracted By:</b> EME		<b>Matrix:</b> AQ				
<b>SDG:</b> SI3999		<b>Extraction Method:</b> SW846 5030		<b>% Solids:</b> NA				
<b>Lab File ID:</b> T3822.D		<b>Lab Prep Batch:</b> WG164633		<b>Report Date:</b> 12-JUN-15				
Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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## Report of Analytical Results

<b>Client:</b> ENSAFE	<b>Sample Date:</b> 09-JUN-15	<b>Analysis Date:</b> 11-JUN-15
<b>Lab ID:</b> SI3999-1	<b>Received Date:</b> 10-JUN-15	<b>Analyst:</b> EME
<b>Client ID:</b> VPB157-TB060915	<b>Extract Date:</b> 11-JUN-15	<b>Analysis Method:</b> SW846 8260C
<b>Project:</b> Navy Clean WE15-03-06 NWIRP Beth <sup>y</sup>	<b>Extracted By:</b> EME	<b>Matrix:</b> AQ
<b>SDG:</b> SI3999	<b>Extraction Method:</b> SW846 5030	<b>% Solids:</b> NA
<b>Lab File ID:</b> T3822.D	<b>Lab Prep Batch:</b> WG164633	<b>Report Date:</b> 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		104.	%					
Toluene-d8		111.	%					
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		112.	%					

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3822.D  
Report Date: 12-Jun-2015 08:24

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3822.D  
Lab Smp Id: SI3999-1 Client Smp ID: VPB157-TB060915  
Inj Date : 11-JUN-2015 22:30 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : SI3999-1  
Misc Info : WG164633,WG164633-4  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 17  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.12

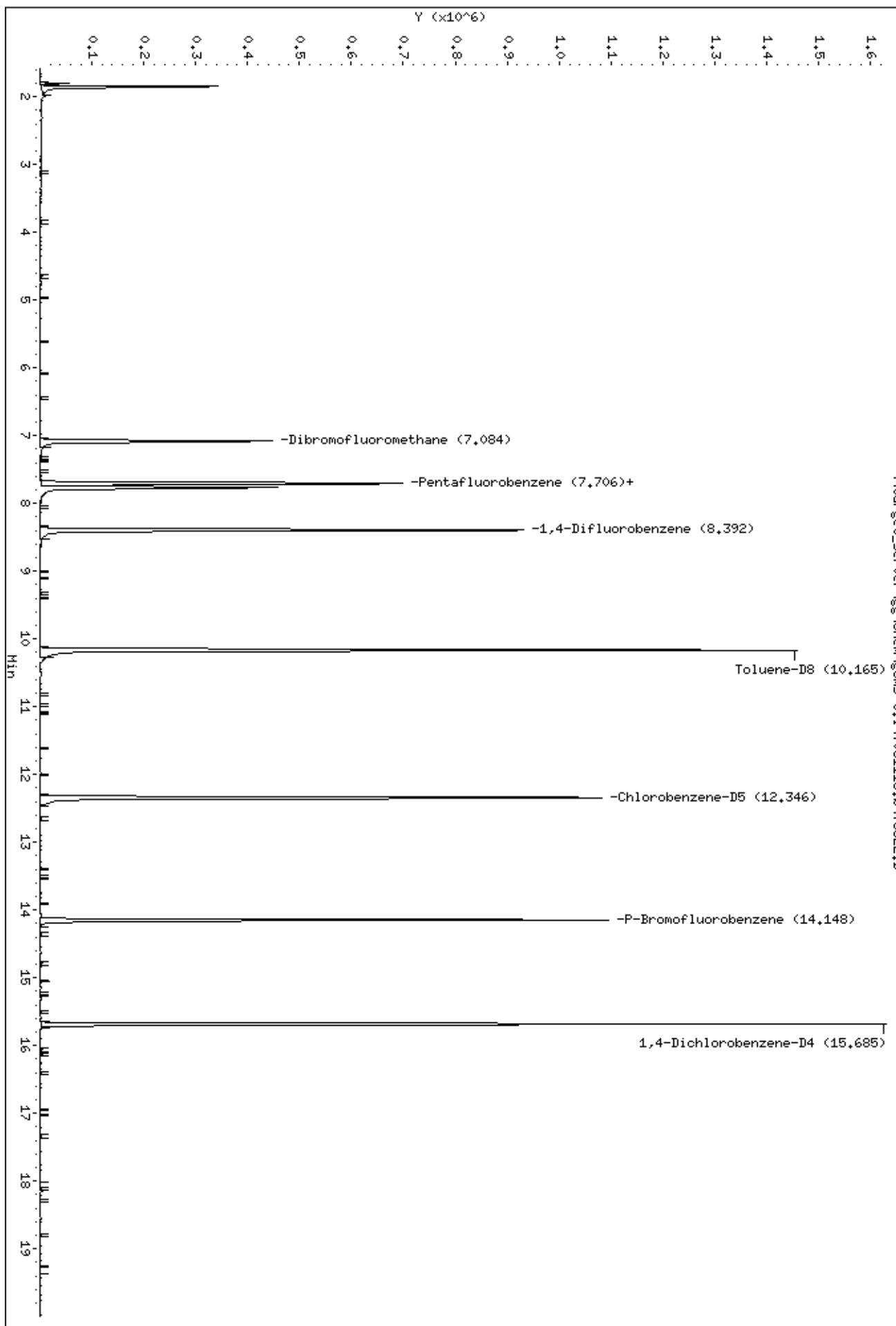
Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		280562	56.1638	56.2	
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		545250	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	7.769	7.770 (1.008)		300938	56.6941	56.7	
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		848186	50.0000		
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		1053151	55.6258	55.6	
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		790110	50.0000		
\$ 77 P-Bromofluorobenzene	95	14.147	14.148 (1.686)		391205	51.9302	51.9	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		435072	50.0000		

Data File: \\target-server\gg\chem\goms-t.i\T06115.b\T3822.D  
Date : 11-JUN-2015 22:30  
Client ID: WPB157-TB060915  
Sample Info: S13999-1

Instrument: goms-t.i  
\\target-server\gg\chem\goms-t.i\T06115.b\T3822.D



## Report of Analytical Results

<b>Client:</b> ENSAFE		<b>Sample Date:</b> 08-JUN-15		<b>Analysis Date:</b> 11-JUN-15				
<b>Lab ID:</b> SI3999-2DL		<b>Received Date:</b> 10-JUN-15		<b>Analyst:</b> EME				
<b>Client ID:</b> 157-060815-728-730		<b>Extract Date:</b> 11-JUN-15		<b>Analysis Method:</b> SW846 8260C				
<b>Project:</b> Navy Clean WE15-03-06 NWIRP Bethq		<b>Extracted By:</b> EME		<b>Matrix:</b> AQ				
<b>SDG:</b> SI3999		<b>Extraction Method:</b> SW846 5030		<b>% Solids:</b> NA				
<b>Lab File ID:</b> T3823.D		<b>Lab Prep Batch:</b> WG164633		<b>Report Date:</b> 12-JUN-15				
<b>Compound</b>	<b>Qualifier</b>	<b>Result</b>	<b>Units</b>	<b>Dilution</b>	<b>LOQ</b>	<b>ADJ LOQ</b>	<b>ADJ MDL</b>	<b>ADJ LOD</b>
Dichlorodifluoromethane	U	8.0	ug/L	8	2	16.	1.9	8.0
Chloromethane	U	8.0	ug/L	8	2	16.	2.9	8.0
Vinyl Chloride	U	8.0	ug/L	8	2	16.	2.0	8.0
Bromomethane	U	8.0	ug/L	8	2	16.	3.9	8.0
Chloroethane	U	8.0	ug/L	8	2	16.	4.4	8.0
Trichlorofluoromethane	U	8.0	ug/L	8	2	16.	1.9	8.0
1,1-Dichloroethene	U	4.0	ug/L	8	1	8.0	2.8	4.0
Carbon Disulfide	U	4.0	ug/L	8	1	8.0	2.0	4.0
Freon-113	U	4.0	ug/L	8	1	8.0	2.5	4.0
Methylene Chloride	U	20	ug/L	8	5	40.	9.0	20.
Acetone	U	20	ug/L	8	5	40.	18.	20.
trans-1,2-Dichloroethene	U	4.0	ug/L	8	1	8.0	2.0	4.0
Methyl tert-butyl Ether	U	4.0	ug/L	8	1	8.0	2.9	4.0
1,1-Dichloroethane	U	4.0	ug/L	8	1	8.0	1.7	4.0
cis-1,2-Dichloroethene	U	4.0	ug/L	8	1	8.0	1.7	4.0
Chloroform	U	4.0	ug/L	8	1	8.0	2.6	4.0
1,1,1-Trichloroethane	U	4.0	ug/L	8	1	8.0	1.6	4.0
2-Butanone	U	20	ug/L	8	5	40.	10.	20.
Cyclohexane	U	4.0	ug/L	8	1	8.0	2.5	4.0
Carbon Tetrachloride	U	4.0	ug/L	8	1	8.0	1.8	4.0
Benzene	U	4.0	ug/L	8	1	8.0	2.1	4.0
1,2-Dichloroethane	U	4.0	ug/L	8	1	8.0	1.6	4.0
Trichloroethene	U	4.0	ug/L	8	1	8.0	2.2	4.0
1,2-Dichloropropane	U	4.0	ug/L	8	1	8.0	2.0	4.0
Bromodichloromethane	U	4.0	ug/L	8	1	8.0	2.6	4.0
cis-1,3-Dichloropropene	U	4.0	ug/L	8	1	8.0	1.5	4.0
Toluene	U	4.0	ug/L	8	1	8.0	2.2	4.0
4-Methyl-2-Pentanone	U	20	ug/L	8	5	40.	10.	20.
trans-1,3-Dichloropropene	U	4.0	ug/L	8	1	8.0	1.6	4.0
1,1,2-Trichloroethane	U	4.0	ug/L	8	1	8.0	2.6	4.0
Tetrachloroethene	U	4.0	ug/L	8	1	8.0	3.2	4.0
Dibromochloromethane	U	4.0	ug/L	8	1	8.0	2.4	4.0
2-Hexanone	U	20	ug/L	8	5	40.	14.	20.
Chlorobenzene	U	4.0	ug/L	8	1	8.0	1.8	4.0
Ethylbenzene	U	4.0	ug/L	8	1	8.0	1.7	4.0

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## Report of Analytical Results

**Client:** ENSAFE                    **Sample Date:** 08-JUN-15                    **Analysis Date:** 11-JUN-15  
**Lab ID:** SI3999-2DL                **Received Date:** 10-JUN-15                **Analyst:** EME  
**Client ID:** 157-060815-728-730    **Extract Date:** 11-JUN-15                **Analysis Method:** SW846 8260C  
**Project:** Navy Clean WE15-03-06 NWIRP Beth<sup>y</sup>    **Extracted By:** EME  
**SDG:** SI3999                        **Extraction Method:** SW846 5030                **Matrix:** AQ  
**Lab File ID:** T3823.D              **Lab Prep Batch:** WG164633                **% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	12	ug/L	8	3	24.	2.0	12.
Styrene	U	4.0	ug/L	8	1	8.0	1.8	4.0
Bromoform	U	4.0	ug/L	8	1	8.0	1.8	4.0
Isopropylbenzene	U	4.0	ug/L	8	1	8.0	1.8	4.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	8	1	8.0	3.0	4.0
1,3-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	2.1	4.0
1,4-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	1.9	4.0
1,2-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	1.2	4.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	8	1	8.0	3.0	4.0
Methyl Acetate	U	6.0	ug/L	8	1	8.0	4.2	6.0
Methylcyclohexane	U	4.0	ug/L	8	1	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	8	1	8.0	2.0	4.0
M+P-Xylenes	U	8.0	ug/L	8	2	16.	4.7	8.0
1,2-Dichloroethylene (Total)	U	8.0	ug/L	8	2	16.	1.7	8.0
1,2-Dibromoethane	U	4.0	ug/L	8	1	8.0	1.8	4.0
1,2-Dibromo-3-Chloropropane	U	6.0	ug/L	8	1	8.0	4.0	6.0
P-Bromofluorobenzene		98.8	%					
Toluene-d8		107.	%					
1,2-Dichloroethane-d4		112.	%					
Dibromofluoromethane		108.	%					

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3823.D  
Report Date: 12-Jun-2015 08:24

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3823.D  
Lab Smp Id: SI3999-2DL Client Smp ID: 157-060815-728-730  
Inj Date : 11-JUN-2015 23:05 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : SI3999-2DL  
Misc Info : WG164633 ,WG164633-4  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 18  
Dil Factor: 8.00000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.12

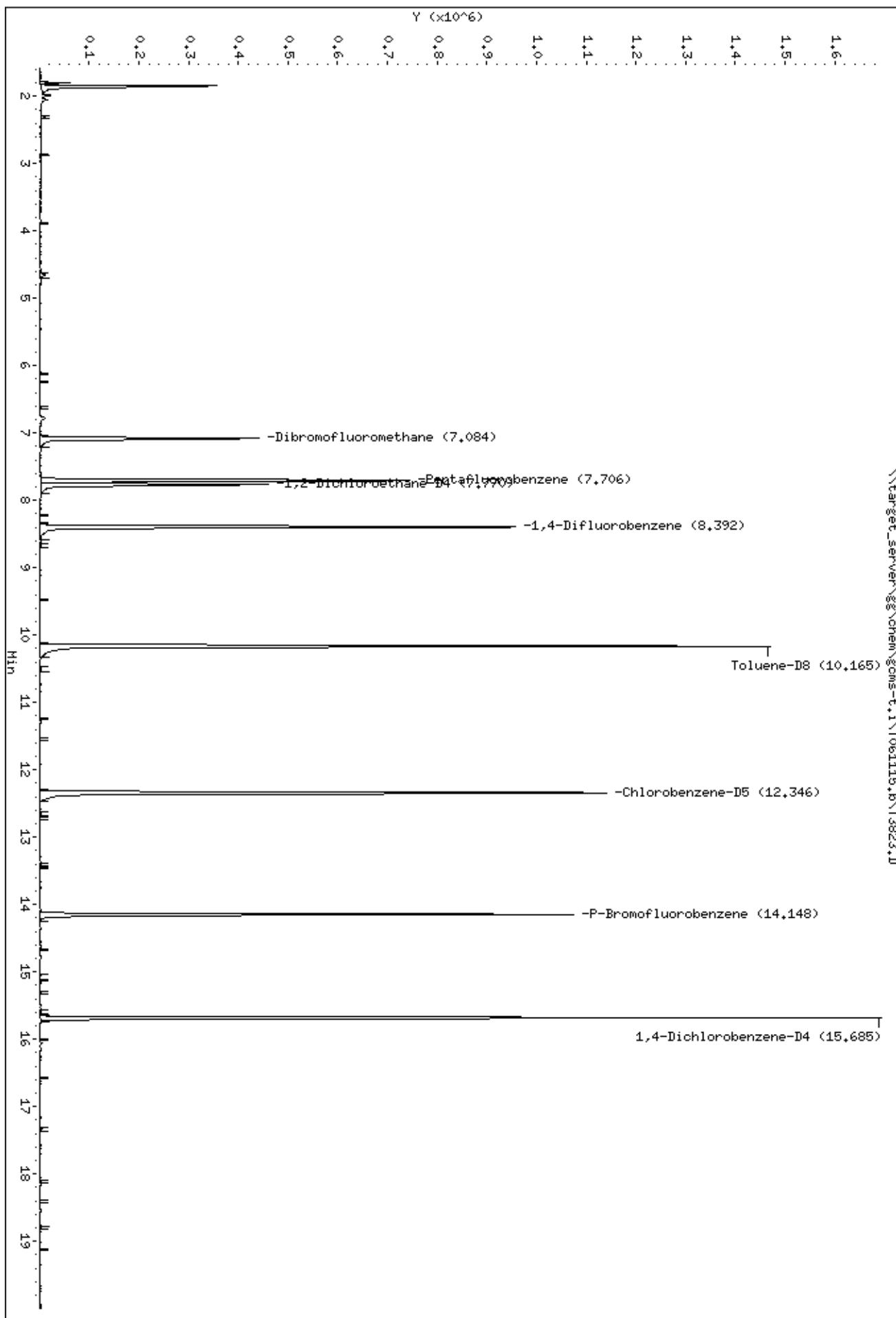
Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	8.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		282934	54.0703	54.1	
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		571149	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		310914	55.9174	55.9	
* 49 1,4-Difluorobenzene	114	8.399	8.391 (1.000)		892296	50.0000		
\$ 55 Toluene-D8	98	10.165	10.165 (1.210)		1062606	53.3507	53.4	
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		826454	50.0000		
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.684)		391710	49.4268	49.4	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		445618	50.0000		

Data File: \\target-server\gg\chem\goms-t.i\T06115.b\T3823.D  
Date : 11-JUN-2015 23:05  
Client ID: 157-060815-728-730  
Sample Info: S13999-2DL

Instrument: goms-t.i  
\\target-server\gg\chem\goms-t.i\T06115.b\T3823.D



## Report of Analytical Results

**Client:** ENSAFE      **Sample Date:** 08-JUN-15      **Analysis Date:** 11-JUN-15  
**Lab ID:** SI3999-3DL      **Received Date:** 10-JUN-15      **Analyst:** EME  
**Client ID:** 157-060815-738-740      **Extract Date:** 11-JUN-15      **Analysis Method:** SW846 8260C  
**Project:** Navy Clean WE15-03-06 NWIRP Bethq      **Extracted By:** EME  
**SDG:** SI3999      **Extraction Method:** SW846 5030      **Matrix:** AQ  
**Lab File ID:** T3824.D      **Lab Prep Batch:** WG164633      **% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	8.0	ug/L	8	2	16.	1.9	8.0
Chloromethane	U	8.0	ug/L	8	2	16.	2.9	8.0
Vinyl Chloride	U	8.0	ug/L	8	2	16.	2.0	8.0
Bromomethane	U	8.0	ug/L	8	2	16.	3.9	8.0
Chloroethane	U	8.0	ug/L	8	2	16.	4.4	8.0
Trichlorofluoromethane	U	8.0	ug/L	8	2	16.	1.9	8.0
1,1-Dichloroethene	U	4.0	ug/L	8	1	8.0	2.8	4.0
Carbon Disulfide	U	4.0	ug/L	8	1	8.0	2.0	4.0
Freon-113	U	4.0	ug/L	8	1	8.0	2.5	4.0
Methylene Chloride	U	20	ug/L	8	5	40.	9.0	20.
Acetone	U	20	ug/L	8	5	40.	18.	20.
trans-1,2-Dichloroethene	U	4.0	ug/L	8	1	8.0	2.0	4.0
Methyl tert-butyl Ether	U	4.0	ug/L	8	1	8.0	2.9	4.0
1,1-Dichloroethane	U	4.0	ug/L	8	1	8.0	1.7	4.0
cis-1,2-Dichloroethene	U	4.0	ug/L	8	1	8.0	1.7	4.0
Chloroform	U	4.0	ug/L	8	1	8.0	2.6	4.0
1,1,1-Trichloroethane	U	4.0	ug/L	8	1	8.0	1.6	4.0
2-Butanone	U	20	ug/L	8	5	40.	10.	20.
Cyclohexane	U	4.0	ug/L	8	1	8.0	2.5	4.0
Carbon Tetrachloride	U	4.0	ug/L	8	1	8.0	1.8	4.0
Benzene	U	4.0	ug/L	8	1	8.0	2.1	4.0
1,2-Dichloroethane	U	4.0	ug/L	8	1	8.0	1.6	4.0
Trichloroethene	U	4.0	ug/L	8	1	8.0	2.2	4.0
1,2-Dichloropropane	U	4.0	ug/L	8	1	8.0	2.0	4.0
Bromodichloromethane	U	4.0	ug/L	8	1	8.0	2.6	4.0
cis-1,3-Dichloropropene	U	4.0	ug/L	8	1	8.0	1.5	4.0
Toluene	U	4.0	ug/L	8	1	8.0	2.2	4.0
4-Methyl-2-Pentanone	U	20	ug/L	8	5	40.	10.	20.
trans-1,3-Dichloropropene	U	4.0	ug/L	8	1	8.0	1.6	4.0
1,1,2-Trichloroethane	U	4.0	ug/L	8	1	8.0	2.6	4.0
Tetrachloroethene	U	4.0	ug/L	8	1	8.0	3.2	4.0
Dibromochloromethane	U	4.0	ug/L	8	1	8.0	2.4	4.0
2-Hexanone	U	20	ug/L	8	5	40.	14.	20.
Chlorobenzene	U	4.0	ug/L	8	1	8.0	1.8	4.0
Ethylbenzene	U	4.0	ug/L	8	1	8.0	1.7	4.0

## Report of Analytical Results

**Client:** ENSAFE                    **Sample Date:** 08-JUN-15                    **Analysis Date:** 11-JUN-15  
**Lab ID:** SI3999-3DL                **Received Date:** 10-JUN-15                **Analyst:** EME  
**Client ID:** 157-060815-738-740    **Extract Date:** 11-JUN-15                **Analysis Method:** SW846 8260C  
**Project:** Navy Clean WE15-03-06 NWIRP Beth<sup>y</sup>    **Extracted By:** EME  
**SDG:** SI3999                        **Extraction Method:** SW846 5030                **Matrix:** AQ  
**Lab File ID:** T3824.D              **Lab Prep Batch:** WG164633                **% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	12	ug/L	8	3	24.	2.0	12.
Styrene	U	4.0	ug/L	8	1	8.0	1.8	4.0
Bromoform	U	4.0	ug/L	8	1	8.0	1.8	4.0
Isopropylbenzene	U	4.0	ug/L	8	1	8.0	1.8	4.0
1,1,2,2-Tetrachloroethane	U	4.0	ug/L	8	1	8.0	3.0	4.0
1,3-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	2.1	4.0
1,4-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	1.9	4.0
1,2-Dichlorobenzene	U	4.0	ug/L	8	1	8.0	1.2	4.0
1,2,4-Trichlorobenzene	U	4.0	ug/L	8	1	8.0	3.0	4.0
Methyl Acetate	U	6.0	ug/L	8	1	8.0	4.2	6.0
Methylcyclohexane	U	4.0	ug/L	8	1	8.0	2.4	4.0
o-Xylene	U	4.0	ug/L	8	1	8.0	2.0	4.0
M+P-Xylenes	U	8.0	ug/L	8	2	16.	4.7	8.0
1,2-Dichloroethylene (Total)	U	8.0	ug/L	8	2	16.	1.7	8.0
1,2-Dibromoethane	U	4.0	ug/L	8	1	8.0	1.8	4.0
1,2-Dibromo-3-Chloropropane	U	6.0	ug/L	8	1	8.0	4.0	6.0
P-Bromofluorobenzene		98.2	%					
Toluene-d8		106.	%					
1,2-Dichloroethane-d4		110.	%					
Dibromofluoromethane		106.	%					

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3824.D  
Report Date: 12-Jun-2015 08:24

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3824.D  
Lab Smp Id: SI3999-3DL Client Smp ID: 157-060815-738-740  
Inj Date : 11-JUN-2015 23:41 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : SI3999-3DL  
Misc Info : WG164633 ,WG164633-4  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 19  
Dil Factor: 8.00000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

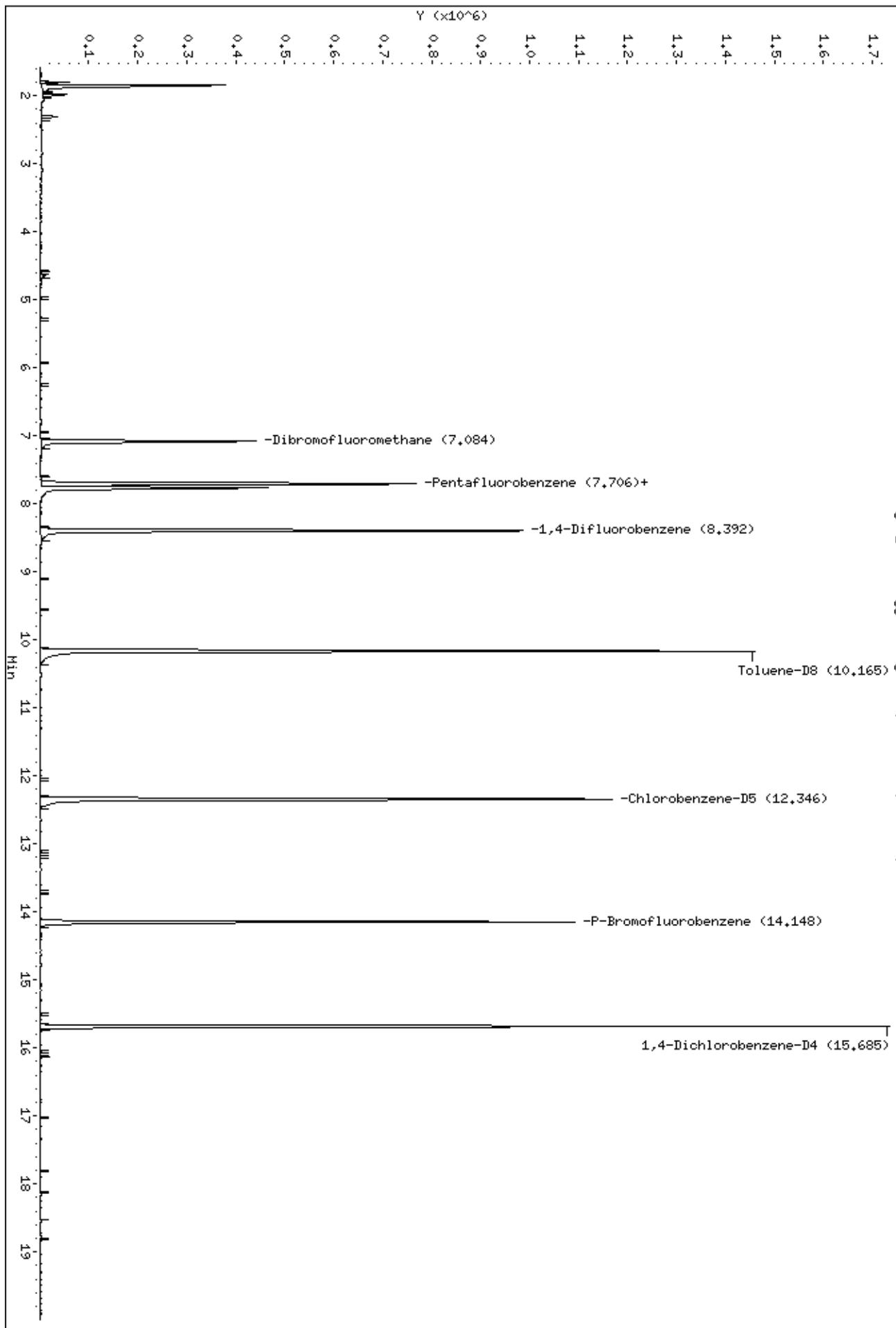
Name	Value	Description
DF	8.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
\$ 37 Dibromofluoromethane	113	7.083	7.084	(0.919)	284997	52.9389	52.9	
* 42 Pentafluorobenzene	168	7.705	7.706	(1.000)	587609	50.0000		
\$ 45 1,2-Dichloroethane-D4	65	7.769	7.770	(1.008)	313405	54.7865	54.8	
* 49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	908455	50.0000		
\$ 55 Toluene-D8	98	10.165	10.165	(1.211)	1070574	52.7946	52.8	
* 66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	838683	50.0000		
\$ 77 P-Bromofluorobenzene	95	14.147	14.148	(1.686)	396288	49.1150	49.1	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	453584	50.0000		

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3824.D  
Date : 11-JUN-2015 23:41  
Client ID: 157-060815-738-740  
Sample Info: S13999-3DL

Instrument: goms-t.i

\\target-server\gg\chem\goms-t.i\T061115.b\T3824.D



## **Standards Data Section**

## Form 6

### Initial Calibration Summary

**Lab Name :** Katahdin Analytical Services

**SDG:** SI3999

**Project :** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Instrument ID:** GCMS-T

**Lab File IDs :** T3815.D    T3809.D    T3808.D  
                    T3807.D    T3812.D    T3811.D

**Column ID:**

**Calibration Date(s):** 11-JUN-15 13:22  
                            11-JUN-15 18:22

	<b>1.0000</b>	<b>5.0000</b>	<b>20.0000</b>	<b>50.0000</b>	<b>100.0000</b>	<b>200.0000</b>	New	<b>b</b>	<b>m1</b>	<b>m2</b>	<b>%RSD</b>	<b>Max %RSD</b>
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>	<b>CrV</b>					

Dichlorodifluoromethane	0.32760	0.31595	0.28475	0.31557	0.28465	0.30904	AVG		0.30626		5.79269	15.00000 O
Chloromethane	0.56427	0.45065	0.39945	0.40604	0.43066	0.45048	AVG		0.45026		13.29571	15.00000 O
Vinyl chloride	0.47990	0.44719	0.41027	0.43113	0.44468	0.44367	AVG		0.44281		5.14407	15.00000 O
Bromomethane	0.26461	0.25949	0.23947	0.25620	0.28394	0.31128	AVG		0.26917		9.33426	15.00000 O
Chloroethane	0.39005	0.29812	0.24128	0.25478	0.15695	0.27397	AVG		0.26919		28.31610	15.00000 WO
Trichlorofluoromethane	0.69105	0.58347	0.51666	0.57496	0.57097	0.60422	AVG		0.59022		9.70995	15.00000 O
1,1-Dichloroethene	0.46507	0.42002	0.41738	0.43412	0.42628	0.45118	AVG		0.43568		4.32478	15.00000 O
Carbon Disulfide	1.28119	1.14175	1.13021	1.15915	1.15908	1.17546	AVG		1.17447		4.64661	15.00000 O
Freon-113	0.37091	0.27879	0.27057	0.29487	0.27285	0.30067	AVG		0.29811		12.62854	15.00000 O
Methylene Chloride	12649	35045	124385	329167	624003	1268151	LNR	0.00134	0.52926		0.99971	0.99000 O
Acetone	0.16964	0.13770	0.14018	0.17437	0.12897	+++++	AVG		0.15017		13.60368	15.00000 O
trans-1,2-Dichloroethene	0.52114	0.43741	0.45069	0.45108	0.46614	0.47872	AVG		0.46753		6.38993	15.00000 O
Methyl tert-butyl ether	0.90867	1.12301	1.24583	1.26875	1.26988	1.08074	AVG		1.14948		12.39016	15.00000 O
1,1-Dichloroethane	0.77003	0.76099	0.77540	0.79120	0.77894	0.80422	AVG		0.78013		1.98188	15.00000 O
cis-1,2-Dichloroethene	0.59742	0.57218	0.55736	0.57331	0.57955	0.59361	AVG		0.57891		2.56255	15.00000 O
1,2-Dichloroethylene (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000 MC
Chloroform	0.82277	0.78890	0.77872	0.76274	0.77911	0.80286	AVG		0.78919		2.67322	15.00000 O
Carbon Tetrachloride	0.32805	0.31517	0.32822	0.33607	0.32851	0.35215	AVG		0.33136		3.68453	15.00000 O
1,1,1-Trichloroethane	0.59185	0.62511	0.62178	0.63148	0.64647	0.67763	AVG		0.63239		4.50326	15.00000 O
2-Butanone	8749	59987	274930	770946	1346097	+++++	LNR	-0.02735	0.22682		0.99738	0.99000 O
Benzene	1.22884	1.18215	1.24089	1.21244	1.18817	1.14440	AVG		1.19948		2.93712	15.00000 O
Cyclohexane	0.58224	0.62244	0.64002	0.67088	0.63785	0.68229	AVG		0.63928		5.59143	15.00000 O
1,2-Dichloroethane	0.42730	0.38131	0.37373	0.35908	0.35667	0.35370	AVG		0.37530		7.36474	15.00000 O
Trichloroethene	0.28577	0.27104	0.30132	0.33997	0.32154	0.32661	AVG		0.30771		8.54393	15.00000 O
1,2-Dichloropropane	0.27881	0.30146	0.29860	0.30756	0.29852	0.31233	AVG		0.29955		3.84421	15.00000 O
Bromodichloromethane	0.35971	0.39141	0.37419	0.37961	0.37580	0.38723	AVG		0.37799		2.94912	15.00000 O
cis-1,3-dichloropropene	0.35816	0.43587	0.46155	0.48556	0.48165	0.48914	AVG		0.45199		11.08132	15.00000 O
Toluene	0.76261	0.76735	0.77367	0.76261	0.75527	0.72864	AVG		0.75836		2.07986	15.00000 O
4-methyl-2-pentanone	0.23970	0.28664	0.29247	0.28269	0.26443	+++++	AVG		0.27319		7.85374	15.00000 O
Tetrachloroethene	0.34857	0.29086	0.28074	0.29379	0.29658	0.30427	AVG		0.30247		7.88734	15.00000 O
trans-1,3-Dichloropropene	0.28433	0.35998	0.39639	0.40212	0.41448	0.39697	AVG		0.37571		12.86315	15.00000 O
1,1,2-Trichloroethane	0.24265	0.25614	0.26212	0.25035	0.25401	0.22705	AVG		0.24872		4.99506	15.00000 O
Dibromochloromethane	0.29991	0.32999	0.34343	0.36134	0.37932	0.35831	AVG		0.34538		8.06680	15.00000 O
1,2-Dibromoethane	0.27287	0.31912	0.31424	0.32522	0.31817	0.27951	AVG		0.30485		7.40602	15.00000 O
2-Hexanone	0.16763	0.22192	0.23163	0.23365	0.22305	+++++	AVG		0.21558		12.65898	15.00000 O
Chlorobenzene	1.05689	0.98044	0.97538	0.98524	0.96990	0.93571	AVG		0.98393		4.04813	15.00000 O
Ethylbenzene	0.56966	0.52667	0.51943	0.53101	0.53308	0.52778	AVG		0.53461		3.32917	15.00000 O

## Form 6

### Initial Calibration Summary

**Lab Name :** Katahdin Analytical Services

**SDG:** SI3999

**Project :** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Instrument ID:** GCMS-T

**Lab File IDs :** T3815.D    T3809.D    T3808.D  
                    T3807.D    T3812.D    T3811.D

**Column ID:**

**Calibration Date(s):** 11-JUN-15 13:22  
                            11-JUN-15 18:22

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00	0.000e+00	15.00000	M O
m+p-Xylenes	0.70351	0.64348	0.63276	0.63827	0.62584	0.58492	AVG		0.63813	5.99362	15.00000	O
o-Xylene	0.58257	0.58496	0.61252	0.61803	0.62864	0.62072	AVG		0.60791	3.19498	15.00000	O
Styrene	0.97050	1.05499	1.04564	1.06491	1.06054	1.00139	AVG		1.03299	3.70542	15.00000	O
Bromoform	0.24529	0.23215	0.25522	0.27550	0.28365	0.24137	AVG		0.25553	7.90757	15.00000	O
Isopropylbenzene	2.82782	2.69106	2.69667	2.69189	2.62671	2.37608	AVG		2.65170	5.66420	15.00000	O
1,1,2,2-Tetrachloroethane	0.85441	0.93048	0.92716	0.89399	0.89354	0.65606	AVG		0.85927	12.0245	15.00000	O
1,3-Dichlorobenzene	1.64305	1.49673	1.46589	1.46805	1.44953	1.38429	AVG		1.48459	5.80778	15.00000	O
1,4-Dichlorobenzene	1.75858	1.55570	1.51226	1.49803	1.48012	1.41183	AVG		1.53608	7.72894	15.00000	O
1,2-Dichlorobenzene	1.57070	1.49565	1.41258	1.42034	1.42106	1.33352	AVG		1.44231	5.63120	15.00000	O
1,2-Dibromo-3-Chloropropane	0.17446	0.18030	0.17464	0.17161	0.17153	+++++	AVG		0.17451	2.04367	15.00000	O
1,2,4-Trichlorobenzene	1.33126	1.10593	1.10892	1.08315	1.09951	1.00676	AVG		1.12259	9.71857	15.00000	O
Methyl Acetate	0.34242	0.43654	0.42939	0.42772	0.43038	+++++	AVG		0.41329	9.61923	15.00000	O
Methylcyclohexane	0.81307	0.70698	0.72391	0.82591	0.78354	0.80295	AVG		0.77606	6.34559	15.00000	O
Dibromofluoromethane	0.43758	0.48476	0.39616	0.47358	0.48092	0.47552	AVG		0.45809	7.58254	15.00000	
1,2-Dichloroethane-D4	0.47522	0.54642	0.42589	0.50702	0.49936	0.46664	AVG		0.48676	8.40648	15.00000	
Toluene-D8	1.29600	1.17321	0.93311	1.13915	1.14354	1.01144	AVG		1.11608	11.4289	15.00000	
P-Bromofluorobenzene	0.54011	0.48154	0.36297	0.43198	0.43508	0.41281	AVG		0.44408	13.6638	15.00000	

Legend: O = Kept Original Curve  
Y = Failed Minimum RF  
W = Failed %RSD Value

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG164633  
 Sample Matrix: LIQUID Fraction: VOA  
 Lab Smp Id: WG164633-7 Client Smp ID: Independent Source  
 Level: LOW Operator: EME  
 Data Type: MS DATA SampleType: IND SOURCE  
 SpikeList File: IND\_CHECK4.1.spk Quant Type: ISTD  
 Sublist File: SW8260-S.sub  
 Method File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
 Misc Info: WG164633, WG164633-4

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	51.5	103.03	80-120
2 Chloromethane	50.0	52.3	104.57	80-120
3 Vinyl chloride	50.0	49.0	98.02	80-120
4 Bromomethane	50.0	50.7	101.33	80-120
5 Chloroethane	50.0	46.8	93.69	80-120
6 Trichlorofluoromet	50.0	47.6	95.29	80-120
7 Diethyl Ether	50.0	48.8	97.67	80-120
8 Tertiary-butyl alc	250	261	104.57	80-120
9 1,1-Dichloroethene	50.0	47.2	94.36	80-120
10 Carbon Disulfide	50.0	58.2	116.48	80-120
11 Freon-113	50.0	42.3	84.62	80-120
12 Iodomethane	50.0	43.8	87.70	80-120
13 Acrolein	250	273	109.13	80-120
14 Methylene Chloride	50.0	47.0	94.12	80-120
15 Acetone	50.0	46.7	93.44	80-120
16 Isobutyl Alcohol	1000	938	93.79	80-120
17 trans-1,2-Dichloro	50.0	48.5	97.00	80-120
18 Allyl Chloride	50.0	46.9	93.77	80-120
19 Methyl tert-butyl	100	110	109.72	80-120
20 Acetonitrile	500	483	96.60	80-120
21 Di-isopropyl ether	50.0	52.3	104.68	80-120
22 Chloroprene	50.0	49.0	98.09	80-120
23 Propionitrile	500	558	111.57	80-120
24 Methacrylonitrile	500	548	109.67	80-120
25 1,1-Dichloroethane	50.0	49.4	98.91	80-120
26 Acrylonitrile	250	276	110.55	80-120
27 Ethyl tertiary-but	50.0	52.3	104.57	80-120
28 Vinyl Acetate	50.0	44.0	87.92	80-120
29 cis-1,2-Dichloroet	50.0	43.6	87.32	80-120
M 30 1,2-Dichloroethyle	100	92.2	92.16	80-120
31 Methyl Methacrylat	50.0	57.0	114.03	80-120
32 2,2-Dichloropropan	50.0	41.3	82.61	80-120
33 Bromochloromethane	50.0	45.1	90.24	80-120
34 Chloroform	50.0	46.3	92.66	80-120
35 Carbon Tetrachlori	50.0	47.7	95.42	80-120
36 Tetrahydrofuran	50.0	53.7	107.41	80-120
38 1,1,1-Trichloroeth	50.0	46.9	93.88	80-120
39 1,1-Dichloropropen	50.0	48.8	97.71	80-120
40 2-Butanone	50.0	47.8	95.65	80-120
41 Benzene	50.0	49.7	99.43	80-120

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
43 Cyclohexane	50.0	46.2	92.36	80-120
44 Ethyl Methacrylate	50.0	55.2	110.50	80-120
46 Tertiary-amyl meth	50.0	51.7	103.34	80-120
47 1,2-Dichloroethane	50.0	47.7	95.32	80-120
48 Trichloroethene	50.0	47.9	95.83	80-120
50 Dibromomethane	50.0	47.9	95.76	80-120
51 1,2-Dichloropropan	50.0	48.7	97.50	80-120
52 Bromodichlorometha	50.0	50.4	100.76	80-120
53 cis-1,3-dichloropr	50.0	51.8	103.64	80-120
54 1,4-Dioxane	1000	528	52.84*	80-120
56 2-Chloroethylvinyl	50.0	85.8	171.71*	80-120
57 Toluene	50.0	48.7	97.46	80-120
58 4-methyl-2-pentano	50.0	54.5	108.94	80-120
59 Tetrachloroethene	50.0	49.4	98.83	80-120
60 trans-1,3-Dichloro	50.0	55.0	109.95	80-120
61 1,1,2-Trichloroeth	50.0	50.2	100.49	80-120
62 Dibromochlorometha	50.0	52.3	104.65	80-120
63 1,3-Dichloropropan	50.0	51.1	102.13	80-120
64 1,2-Dibromoethane	50.0	51.6	103.10	80-120
65 2-Hexanone	50.0	55.4	110.73	80-120
67 Chlorobenzene	50.0	49.0	97.97	80-120
68 1-Chlorohexane	50.0	42.9	85.86	80-120
69 Ethylbenzene	50.0	47.9	95.76	80-120
M 70 1,1,1,2-Tetrachlor	50.0	49.7	99.36	80-120
71 Xylenes (total)	150	145	96.60	80-120
72 m+p-Xylenes	100	95.0	94.97	80-120
73 o-Xylene	50.0	49.9	99.87	80-120
74 Styrene	50.0	50.3	100.60	80-120
75 Bromoform	50.0	54.7	109.41	80-120
76 Isopropylbenzene	50.0	51.0	101.94	80-120
78 cis-1,4-Dichloro-2	50.0	53.5	107.06	80-120
79 trans-1,4-Dichloro	50.0	55.5	111.03	80-120
80 Bromobenzene	50.0	49.2	98.44	80-120
81 N-Propylbenzene	50.0	51.5	103.03	80-120
82 1,1,2,2-Tetrachlor	50.0	53.4	106.80	80-120
83 1,3,5-Trimethylben	50.0	49.0	98.03	80-120
84 2-Chlorotoluene	50.0	50.9	101.86	80-120
85 1,2,3-Trichloropro	50.0	54.4	108.74	80-120
86 4-Chlorotoluene	50.0	48.8	97.54	80-120
87 tert-Butylbenzene	50.0	50.3	100.69	80-120
88 Pentachloroethane	50.0	46.5	92.96	80-120
89 1,2,4-Trimethylben	50.0	51.3	102.64	80-120
90 P-Isopropyltoluene	50.0	50.3	100.66	80-120
91 1,3-Dichlorobenzen	50.0	48.6	97.20	80-120
93 1,4-Dichlorobenzen	50.0	48.5	96.99	80-120
94 N-Butylbenzene	50.0	47.9	95.87	80-120
95 sec-Butylbenzene	50.0	50.5	100.98	80-120
96 1,2-Dichlorobenzen	50.0	49.0	98.02	80-120
97 1,2-Dibromo-3-Chlo	50.0	54.7	109.39	80-120
98 1,3,5-Trichloroben	50.0	45.7	91.39	80-120
99 Hexachlorobutadien	50.0	45.4	90.72	80-120
100 1,2,4-Trichloroben	50.0	48.4	96.74	80-120
101 1,2,3-Trimethylben	50.0	49.5	99.00	80-120
102 Naphthalene	50.0	57.0	113.97	80-120

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\t3817A.D  
Report Date: 12-Jun-2015 08:25

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
103 1,2,3-Trichloroben	50.0	46.3	92.57	80-120
104 Methyl Acetate	50.0	53.8	107.69	80-120
105 Methylcyclohexane	50.0	45.0	89.90	80-120
M 106 Total Alkylbenzene	350	351	100.27	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
\$ 37 Dibromofluorometha	50.0	50.6	101.20	68-128
\$ 45 1,2-Dichloroethane	50.0	50.5	101.00	67-135
\$ 55 Toluene-D8	50.0	52.6	105.21	65-128
\$ 77 P-Bromofluorobenze	50.0	48.1	96.20	56-133

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3807.D  
Report Date: 12-Jun-2015 08:08

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3807.D  
Lab Smp Id: WG164633-4 Client Smp ID: Initial Calibration  
Inj Date : 11-JUN-2015 13:22  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-4  
Misc Info :  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 13:22 Cal File: T3807.D  
Als bottle: 2 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW	CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)		
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		198120	50.0000	51.5		
2 Chloromethane	50	2.278	2.279 (0.296)		254918	50.0000	45.1		
3 Vinyl chloride	62	2.378	2.379 (0.309)		270671	50.0000	48.7		
4 Bromomethane	94	2.779	2.779 (0.361)		160850	50.0000	47.6		
5 Chloroethane	64	2.936	2.937 (0.381)		159954	50.0000	47.3		
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		360970	50.0000	48.7		
7 Diethyl Ether	59	3.537	3.537 (0.459)		242115	50.0000	51.0		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		774345	250.000	273		
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		272549	50.0000	49.8		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		727735	50.0000	49.3		
11 Freon-113	151	3.866	3.866 (0.502)		185125	50.0000	49.4		
12 Iodomethane	142	4.009	4.009 (0.520)		193360	50.0000	43.9		
13 Acrolein	56	4.295	4.295 (0.557)		346036	250.000	278		
14 Methylene Chloride	84	4.652	4.653 (0.604)		329167	50.0000	49.6		
15 Acetone	43	4.716	4.717 (0.612)		547368	250.000	290		
16 Isobutyl Alcohol	43	7.898	7.899 (1.025)		203019	1000.00	1220		
17 trans-1,2-Dichloroethene	96	4.888	4.889 (0.634)		283194	50.0000	48.2		
18 Allyl Chloride	41	4.495	4.495 (0.583)		365317	50.0000	50.2		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		1593087	100.000	110		
20 Acetonitrile	39	5.374	5.375 (0.698)		86677	500.000	589		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		803135	50.0000	55.0		
22 Chloroprene	53	5.710	5.711 (0.741)		384215	50.0000	51.1		
23 Propionitrile	54	7.619	7.620 (0.989)		549478	500.000	596		
24 Methacrylonitrile	41	7.655	7.656 (0.994)		1917662	500.000	540		

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3807.D  
 Report Date: 12-Jun-2015 08:08

Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		496733	50.0000	50.7			
26 Acrylonitrile	52	5.810	5.811 (0.754)		630464	250.000	276			
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		774345	50.0000	54.6			
28 Vinyl Acetate	43	6.104	6.104 (0.727)		641268	50.0000	45.3			
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		359936	50.0000	49.5			
31 Methyl Methacrylate	41	9.314	9.315 (1.110)		261772	50.0000	56.5			
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		343585	50.0000	53.8			
33 Bromochloromethane	128	6.740	6.740 (0.875)		160184	50.0000	49.9			
34 Chloroform	83	6.847	6.848 (0.889)		478863	50.0000	48.3			
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		331387	50.0000	50.7			
36 Tetrahydrofuran	42	7.040	7.041 (0.914)		489894	250.000	267			
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		297326	50.0000	51.7			
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		396453	50.0000	49.9			
39 1,1-Dichloropropene	75	7.269	7.270 (0.866)		396951	50.0000	50.4			
40 2-Butanone	43	7.241	7.241 (0.940)		770946	250.000	269			
41 Benzene	78	7.591	7.591 (0.905)		1195559	50.0000	50.5			
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		627820	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.875)		421193	50.0000	52.5			
44 Ethyl Methacrylate	69	10.994	10.995 (1.310)		426053	50.0000	53.3			
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		318317	50.0000	52.1			
46 Tertiary-amyl methyl ether	73	7.748	7.749 (1.006)		735354	50.0000	54.3			
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		354081	50.0000	47.8			
48 Trichloroethene	95	8.349	8.349 (0.995)		335235	50.0000	55.2			
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		986077	50.0000				
50 Dibromomethane	93	8.885	8.886 (1.059)		194749	50.0000	49.6			
51 1,2-Dichloropropane	63	9.021	9.021 (1.075)		303275	50.0000	51.3			
52 Bromodichloromethane	83	9.107	9.107 (1.085)		374326	50.0000	50.2			
53 cis-1,3-dichloropropene	75	9.922	9.922 (1.182)		478795	50.0000	53.7			
54 1,4-Dioxane	88	9.357	9.357 (1.115)		69530	1000.00	656			
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		1123285	50.0000	51.0			
56 2-Chloroethylvinylether	63	9.850	9.851 (1.174)		68377	50.0000	66.0			
57 Toluene	92	10.236	10.237 (1.220)		751996	50.0000	50.3			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		1393768	250.000	259			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		253471	50.0000	48.6			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		396521	50.0000	53.5			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		246864	50.0000	50.3			
62 Dibromochloromethane	129	11.223	11.224 (0.909)		311747	50.0000	52.3			
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		515233	50.0000	52.4			
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		320690	50.0000	53.3			
65 2-Hexanone	43	11.902	11.903 (0.964)		1007900	250.000	271			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		862754	50.0000				
67 Chlorobenzene	112	12.367	12.368 (1.002)		850023	50.0000	50.1			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		400440	50.0000	47.8			
69 Ethylbenzene	106	12.417	12.418 (1.006)		458130	50.0000	49.7			
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		286874	50.0000	51.8			
72 m+p-Xylenes	106	12.646	12.647 (1.024)		1101344	100.000	100			
73 o-Xylene	106	13.290	13.290 (1.076)		533211	50.0000	50.8			
74 Styrene	104	13.368	13.369 (1.083)		918756	50.0000	51.5			
75 Bromoform	173	13.397	13.397 (1.085)		237687	50.0000	53.9			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		1297473	50.0000	50.8			
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.686)		425963	50.0000	48.6			
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		121789	50.0000	56.9			
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		101081	50.0000	56.4			
80 Bromobenzene	156	14.291	14.291 (0.911)		376851	50.0000	49.3			

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3807.D  
 Report Date: 12-Jun-2015 08:08

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
81 N-Propylbenzene	91	14.348	14.348 (0.915)		1534653	50.0000	51.2	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		430897	50.0000	52.0	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		1167086	50.0000	51.5	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		930378	50.0000	50.6	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		344071	50.0000	51.7	
86 4-Chlorotoluene	91	14.784	14.785 (0.943)		996182	50.0000	49.5	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		1154091	50.0000	51.2	
88 Pentachloroethane	117	15.084	15.085 (0.962)		245992	50.0000	50.0	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		1177152	50.0000	51.7	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		1272355	50.0000	51.3	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		707590	50.0000	49.4	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		481993	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		722038	50.0000	48.8	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		1151281	50.0000	50.5	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		1423341	50.0000	51.0	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		684593	50.0000	49.2	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		82714	50.0000	49.2	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		552714	50.0000	47.4	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		216895	50.0000	47.6	
100 1,2,4-Trichlorobenzene	180	18.145	18.145 (1.157)		522071	50.0000	48.2	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		1228424	50.0000	50.5	
102 Naphthalene	128	18.552	18.553 (1.183)		1287624	50.0000	48.9	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		489713	50.0000	45.6	
104 Methyl Acetate	43	4.910	4.910 (0.637)		268531	50.0000	51.7	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		518524	50.0000	53.2	

Data File: \\target-server\gg\schem\goms-t.i\T061115.b\T3807.D

Date : 11-JUN-2015 13:22

Client ID: Initial Calibration

Sample Info: WC164633-4

Purge Volume: 5.0

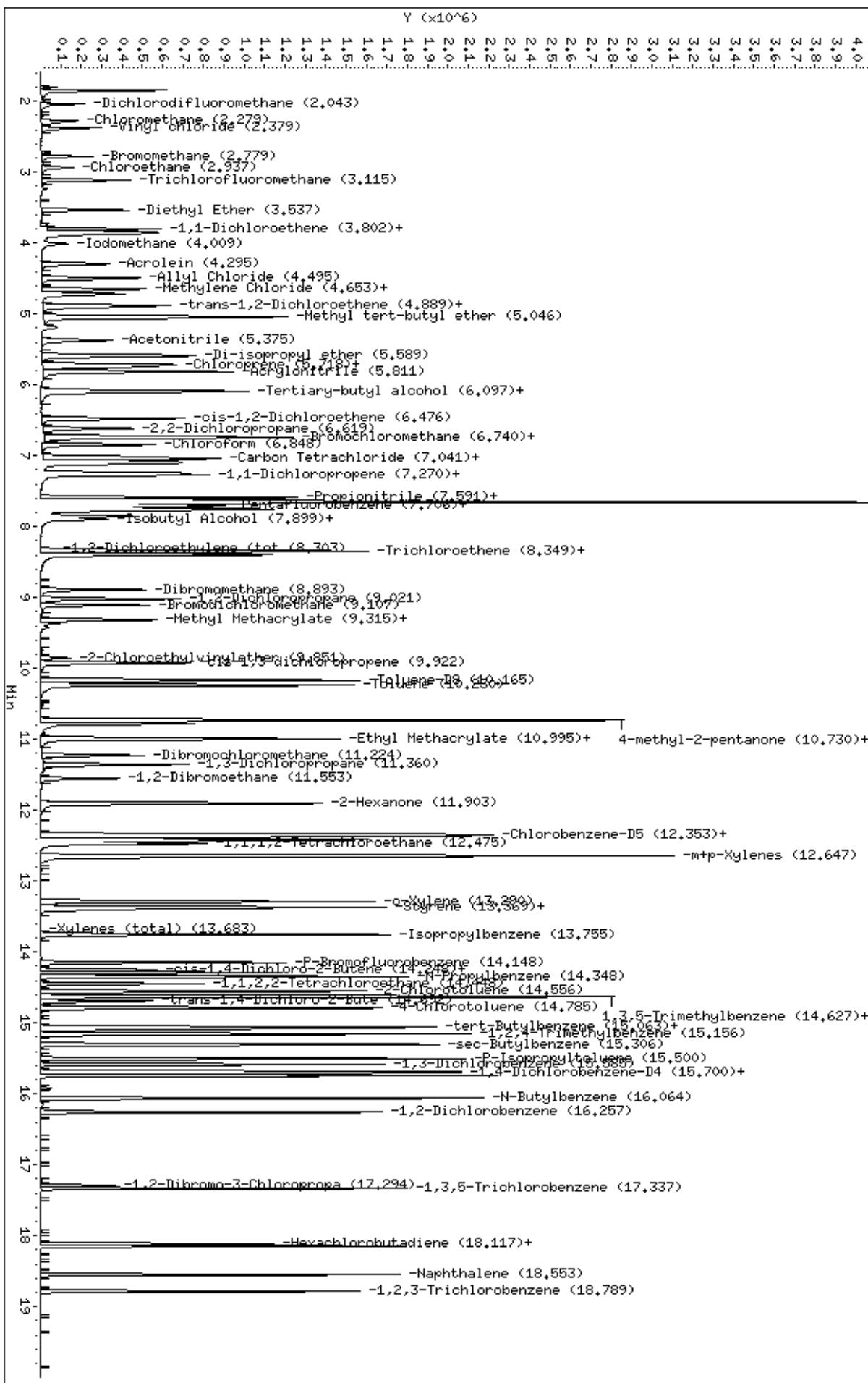
Column phase: RTX-UHS

Instrument: goms-t.i

Operator: EME

Column diameter: 0.18

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Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3808.D  
Report Date: 12-Jun-2015 08:08

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Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3808.D  
Lab Smp Id: WG164633-3 Client Smp ID: Initial Calibration  
Inj Date : 11-JUN-2015 13:57  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-3  
Misc Info :  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 13:57 Cal File: T3808.D  
Als bottle: 3 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW	CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)		
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		68515	20.0000	18.6		
2 Chloromethane	50	2.285	2.279 (0.297)		96115	20.0000	17.7		
3 Vinyl chloride	62	2.378	2.379 (0.309)		98718	20.0000	18.5		
4 Bromomethane	94	2.779	2.779 (0.361)		57620	20.0000	17.8		
5 Chloroethane	64	2.936	2.937 (0.381)		58056	20.0000	17.9		
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		124318	20.0000	17.5		
7 Diethyl Ether	59	3.537	3.537 (0.459)		93849	20.0000	20.6		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		272094	100.000	100		
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		100430	20.0000	19.2		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		271950	20.0000	19.2		
11 Freon-113	151	3.873	3.866 (0.503)		65103	20.0000	18.2		
12 Iodomethane	142	4.009	4.009 (0.520)		65829	20.0000	18.5		
13 Acrolein	56	4.295	4.295 (0.557)		130498	100.000	110		
14 Methylene Chloride	84	4.652	4.653 (0.604)		124385	20.0000	19.6		
15 Acetone	43	4.724	4.717 (0.613)		168650	100.000	93.3		
16 Isobutyl Alcohol	43	7.898	7.899 (1.025)		97431	400.000	609		
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		108443	20.0000	19.3		
18 Allyl Chloride	41	4.502	4.495 (0.584)		137812	20.0000	19.8		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		599537	40.0000	43.4		
20 Acetonitrile	39	5.374	5.375 (0.698)		33371	200.000	237		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		287885	20.0000	20.6		
22 Chloroprene	53	5.710	5.711 (0.741)		140379	20.0000	19.5		
23 Propionitrile	54	7.620	7.620 (0.989)		203394	200.000	230		
24 Methacrylonitrile	41	7.648	7.656 (0.993)		764156	200.000	225		

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Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		186574	20.0000	19.9			
26 Acrylonitrile	52	5.810	5.811 (0.754)		241776	100.000	110			
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		272094	20.0000	20.0			
28 Vinyl Acetate	43	6.104	6.104 (0.727)		223816	20.0000	16.4			
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		134111	20.0000	19.2			
31 Methyl Methacrylate	41	9.314	9.315 (1.110)		90039	20.0000	20.8			
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		119845	20.0000	19.6			
33 Bromochloromethane	128	6.740	6.740 (0.875)		61809	20.0000	20.1			
34 Chloroform	83	6.847	6.848 (0.889)		187375	20.0000	19.7			
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		120996	20.0000	19.8			
36 Tetrahydrofuran	42	7.047	7.041 (0.915)		188456	100.000	107			
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		95323	20.0000	17.3			
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		149611	20.0000	19.7			
39 1,1-Dichloropropene	75	7.269	7.270 (0.866)		150537	20.0000	20.5			
40 2-Butanone	43	7.241	7.241 (0.940)		274930	100.000	99.4			
41 Benzene	78	7.591	7.591 (0.905)		457445	20.0000	20.7			
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		601545	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.875)		154000	20.0000	20.0			
44 Ethyl Methacrylate	69	10.994	10.995 (1.310)		159820	20.0000	21.4			
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		102476	20.0000	17.5			
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		261566	20.0000	20.2			
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		137773	20.0000	19.9			
48 Trichloroethene	95	8.349	8.349 (0.995)		111081	20.0000	19.6			
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		921609	50.0000				
50 Dibromomethane	93	8.892	8.886 (1.060)		76151	20.0000	20.7			
51 1,2-Dichloropropane	63	9.021	9.021 (1.075)		110078	20.0000	19.9			
52 Bromodichloromethane	83	9.107	9.107 (1.085)		137941	20.0000	19.8			
53 cis-1,3-dichloropropene	75	9.922	9.922 (1.182)		170146	20.0000	20.4			
54 1,4-Dioxane	88	9.364	9.357 (1.116)		59991	400.000	605			
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		343984	20.0000	16.7			
56 2-Chloroethylvinylether	63	9.850	9.851 (1.174)		24405	20.0000	25.2			
57 Toluene	92	10.236	10.237 (1.220)		285207	20.0000	20.4			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		539095	100.000	107			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		93812	20.0000	18.6			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		146128	20.0000	21.1			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		96629	20.0000	21.1			
62 Dibromochloromethane	129	11.223	11.224 (0.909)		114760	20.0000	19.9			
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		194587	20.0000	20.4			
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		115841	20.0000	20.6			
65 2-Hexanone	43	11.910	11.903 (0.965)		387002	100.000	107			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		835392	50.0000				
67 Chlorobenzene	112	12.374	12.368 (1.002)		325930	20.0000	19.8			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		149594	20.0000	18.4			
69 Ethylbenzene	106	12.417	12.418 (1.006)		173572	20.0000	19.4			
70 1,1,1,2-Tetrachloroethane	131	12.475	12.475 (1.010)		102655	20.0000	19.2			
72 m+p-Xylenes	106	12.646	12.647 (1.024)		422883	40.0000	39.7			
73 o-Xylene	106	13.290	13.290 (1.076)		204678	20.0000	20.2			
74 Styrene	104	13.368	13.369 (1.083)		349408	20.0000	20.2			
75 Bromoform	173	13.397	13.397 (1.085)		85285	20.0000	20.0			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		489190	20.0000	20.3			
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.686)		133806	20.0000	16.3			
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		42561	20.0000	21.1			
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		36676	20.0000	21.7			
80 Bromobenzene	156	14.291	14.291 (0.911)		142947	20.0000	19.9			

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Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
81 N-Propylbenzene	91	14.348	14.348 (0.915)		588549	20.0000	20.9	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		168192	20.0000	21.6	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		439183	20.0000	20.6	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		356075	20.0000	20.6	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		131872	20.0000	21.1	
86 4-Chlorotoluene	91	14.784	14.785 (0.943)		383313	20.0000	20.2	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		433345	20.0000	20.4	
88 Pentachloroethane	117	15.084	15.085 (0.962)		91195	20.0000	19.7	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		436777	20.0000	20.4	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		474773	20.0000	20.3	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		265920	20.0000	19.7	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		453513	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		274332	20.0000	19.7	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		431060	20.0000	20.1	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		540193	20.0000	20.6	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		256249	20.0000	19.6	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		31680	20.0000	20.0	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		208586	20.0000	19.0	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		80188	20.0000	18.7	
100 1,2,4-Trichlorobenzene	180	18.145	18.145 (1.157)		201164	20.0000	19.8	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		471707	20.0000	20.6	
102 Naphthalene	128	18.552	18.553 (1.183)		521738	20.0000	21.1	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		189424	20.0000	18.8	
104 Methyl Acetate	43	4.910	4.910 (0.637)		103319	20.0000	20.8	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		174185	20.0000	18.6	

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3808.D  
Date : 11-JUN-2015 13:57

Client ID: Initial Calibration

Sample Info: WG164633-3

Purge Volume: 5.0

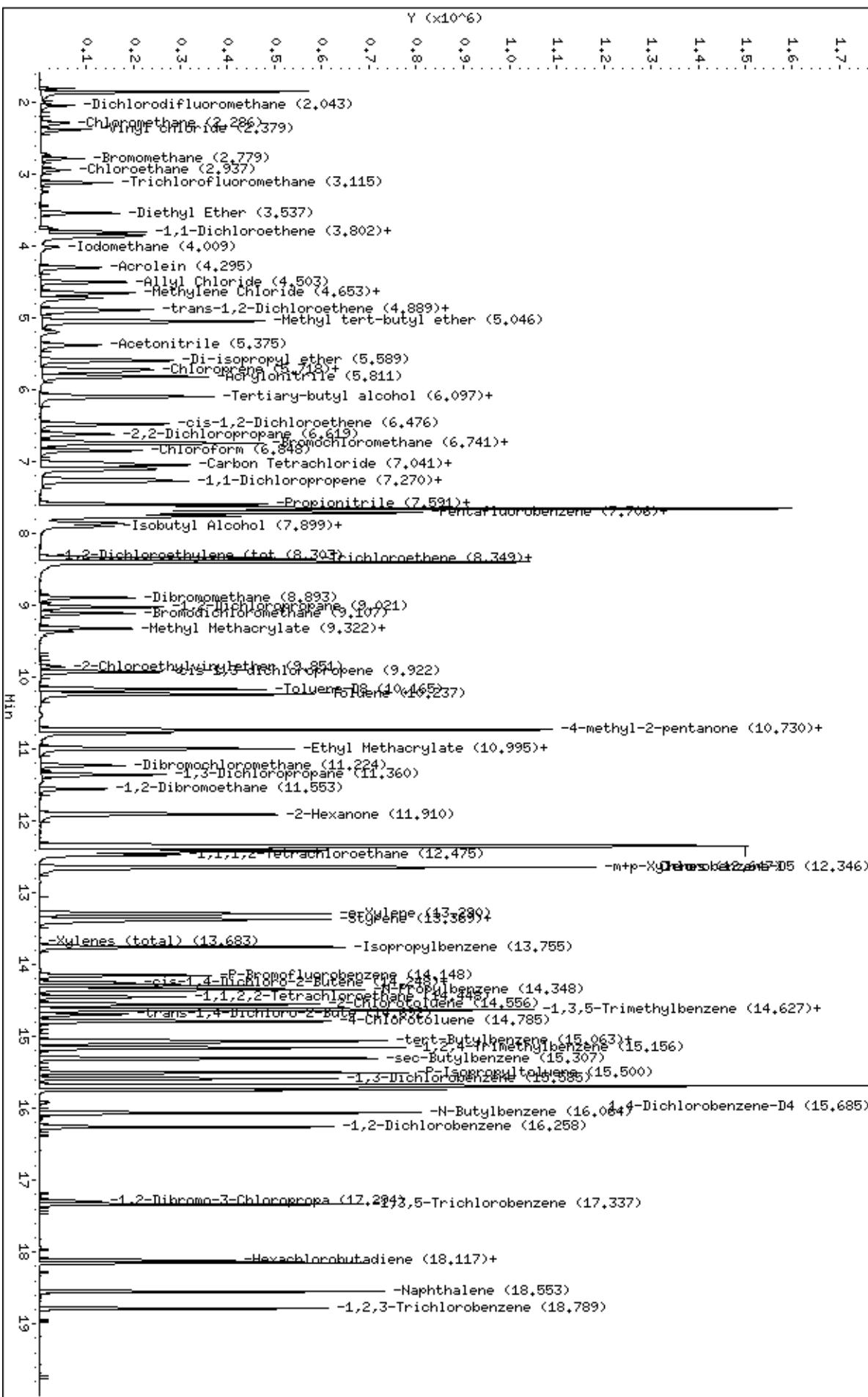
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Instrument: goms-t.i

Operator: EME

Column diameter: 0.18

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Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3809.D  
Report Date: 12-Jun-2015 08:08

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3809.D  
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Inj Date : 11-JUN-2015 14:32  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-2  
Misc Info :  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 14:32 Cal File: T3809.D  
Als bottle: 4 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW	CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)		
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		18779	5.00000	5.2		
2 Chloromethane	50	2.285	2.279 (0.297)		26785	5.00000	5.0		
3 Vinyl chloride	62	2.378	2.379 (0.309)		26579	5.00000	5.0		
4 Bromomethane	94	2.779	2.779 (0.361)		15423	5.00000	4.8		
5 Chloroethane	64	2.943	2.937 (0.382)		17719	5.00000	5.5		
6 Trichlorofluoromethane	101	3.122	3.115 (0.405)		34679	5.00000	4.9		
7 Diethyl Ether	59	3.537	3.537 (0.459)		21398	5.00000	4.8		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		61609	25.0000	23.0		
9 1,1-Dichloroethene	96	3.808	3.802 (0.494)		24964	5.00000	4.8		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		67861	5.00000	4.9		
11 Freon-113	151	3.865	3.866 (0.502)		16570	5.00000	4.7		
12 Iodomethane	142	4.008	4.009 (0.520)		16868	5.00000	8.1		
13 Acrolein	56	4.302	4.295 (0.558)		32037	25.0000	27.2		
14 Methylene Chloride	84	4.652	4.653 (0.604)		35045	5.00000	5.6		
15 Acetone	43	4.731	4.717 (0.614)		40921	25.0000	22.9		
16 Isobutyl Alcohol	43	7.898	7.899 (1.025)		15559	100.000	98.4		
17 trans-1,2-Dichloroethene	96	4.888	4.889 (0.634)		25998	5.00000	4.7		
18 Allyl Chloride	41	4.495	4.495 (0.583)		33346	5.00000	4.8		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		133494	10.0000	9.8		
20 Acetonitrile	39	5.374	5.375 (0.697)		7062	50.0000	50.7		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		62490	5.00000	4.5		
22 Chloroprene	53	5.717	5.711 (0.742)		33140	5.00000	4.6		
23 Propionitrile	54	7.619	7.620 (0.989)		47513	50.0000	54.5		
24 Methacrylonitrile	41	7.648	7.656 (0.993)		193415	50.0000	57.5		

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3809.D  
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Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		45230	5.00000	4.9			
26 Acrylonitrile	52	5.810	5.811 (0.754)		59921	25.0000	27.7			
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		61609	5.00000	4.6			
28 Vinyl Acetate	43	6.103	6.104 (0.727)		45929	5.00000	5.1			
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		34008	5.00000	4.9			
31 Methyl Methacrylate	41	9.321	9.315 (1.110)		19821	5.00000	4.8			
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		27706	5.00000	4.6			
33 Bromochloromethane	128	6.740	6.740 (0.875)		16594	5.00000	5.5			
34 Chloroform	83	6.847	6.848 (0.889)		46889	5.00000	5.0			
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		27930	5.00000	4.8			
36 Tetrahydrofuran	42	7.047	7.041 (0.915)		44606	25.0000	25.7			
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		28812	5.00000	5.3			
38 1,1,1-Trichloroethane	97	7.104	7.105 (0.922)		37154	5.00000	4.9			
39 1,1-Dichloropropene	75	7.269	7.270 (0.865)		34210	5.00000	4.8			
40 2-Butanone	43	7.247	7.241 (0.941)		59987	25.0000	20.9			
41 Benzene	78	7.591	7.591 (0.904)		104760	5.00000	4.9			
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		594358	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.875)		36995	5.00000	4.9			
44 Ethyl Methacrylate	69	10.994	10.995 (1.309)		38129	5.00000	5.3			
\$ 45 1,2-Dichloroethane-D4	65	7.769	7.770 (1.008)		32477	5.00000	5.6			
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		59838	5.00000	4.7			
47 1,2-Dichloroethane	62	7.855	7.856 (0.935)		33791	5.00000	5.1			
48 Trichloroethene	95	8.349	8.349 (0.994)		24019	5.00000	4.4			
* 49 1,4-Difluorobenzene	114	8.399	8.391 (1.000)		886183	50.0000				
50 Dibromomethane	93	8.892	8.886 (1.059)		17985	5.00000	5.1			
51 1,2-Dichloropropane	63	9.021	9.021 (1.074)		26715	5.00000	5.0			
52 Bromodichloromethane	83	9.114	9.107 (1.085)		34686	5.00000	5.2			
53 cis-1,3-dichloropropene	75	9.929	9.922 (1.182)		38626	5.00000	4.8			
54 1,4-Dioxane	88	9.364	9.357 (1.115)		17589	100.000	184			
\$ 55 Toluene-D8	98	10.165	10.165 (1.210)		103968	5.00000	5.2			
56 2-Chloroethylvinylether	63	9.864	9.851 (1.175)		5153	5.00000	5.5			
57 Toluene	92	10.229	10.237 (1.218)		68001	5.00000	5.0			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.278)		127006	25.0000	26.2			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		24096	5.00000	4.8			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.283)		31901	5.00000	4.8			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.308)		22699	5.00000	5.1			
62 Dibromochloromethane	129	11.230	11.224 (0.910)		27338	5.00000	4.8			
63 1,3-Dichloropropene	76	11.359	11.360 (0.920)		47362	5.00000	5.0			
64 1,2-Dibromoethane	107	11.559	11.553 (1.376)		28280	5.00000	5.2			
65 2-Hexanone	43	11.909	11.903 (0.965)		91926	25.0000	25.7			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		828445	50.0000				
67 Chlorobenzene	112	12.367	12.368 (1.002)		81224	5.00000	5.0			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		38387	5.00000	4.8			
69 Ethylbenzene	106	12.424	12.418 (1.006)		43632	5.00000	4.9			
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		24489	5.00000	4.6			
72 m+p-Xylenes	106	12.646	12.647 (1.024)		106617	10.0000	10.1			
73 o-Xylene	106	13.289	13.290 (1.076)		48461	5.00000	4.8			
74 Styrene	104	13.368	13.369 (1.083)		87400	5.00000	5.1			
75 Bromoform	173	13.397	13.397 (1.085)		19232	5.00000	4.5			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		123595	5.00000	5.1			
\$ 77 P-Bromofluorobenzene	95	14.147	14.148 (1.684)		42673	5.00000	5.4			
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		10988	5.00000	5.4			
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		8821	5.00000	5.2			
80 Bromobenzene	156	14.290	14.291 (0.911)		36177	5.00000	5.0			

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Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
81 N-Propylbenzene	91	14.348	14.348 (0.915)		145995	5.00000	5.1	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		42735	5.00000	5.4	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		109410	5.00000	5.1	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		89006	5.00000	5.1	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		34000	5.00000	5.4	
86 4-Chlorotoluene	91	14.784	14.785 (0.943)		96213	5.00000	5.0	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		105238	5.00000	4.9	
88 Pentachloroethane	117	15.084	15.085 (0.962)		21938	5.00000	4.7	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		108892	5.00000	5.0	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		118092	5.00000	5.0	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		68742	5.00000	5.0	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		459280	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		71450	5.00000	5.1	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		110018	5.00000	5.1	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		137983	5.00000	5.2	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		68692	5.00000	5.2	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		8281	5.00000	5.2	
98 1,3,5-Trichlorobenzene	180	17.336	17.337 (1.105)		54235	5.00000	4.9	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		21441	5.00000	4.9	
100 1,2,4-Trichlorobenzene	180	18.144	18.145 (1.157)		50793	5.00000	4.9	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		120505	5.00000	5.2	
102 Naphthalene	128	18.552	18.553 (1.183)		129657	5.00000	5.2	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		50464	5.00000	4.9	
104 Methyl Acetate	43	4.917	4.910 (0.638)		25946	5.00000	5.3	
105 Methylcyclohexane	83	8.341	8.342 (1.083)		42020	5.00000	4.6	

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3809.D  
Date : 11-JUN-2015 14:32

Client ID: Initial Calibration

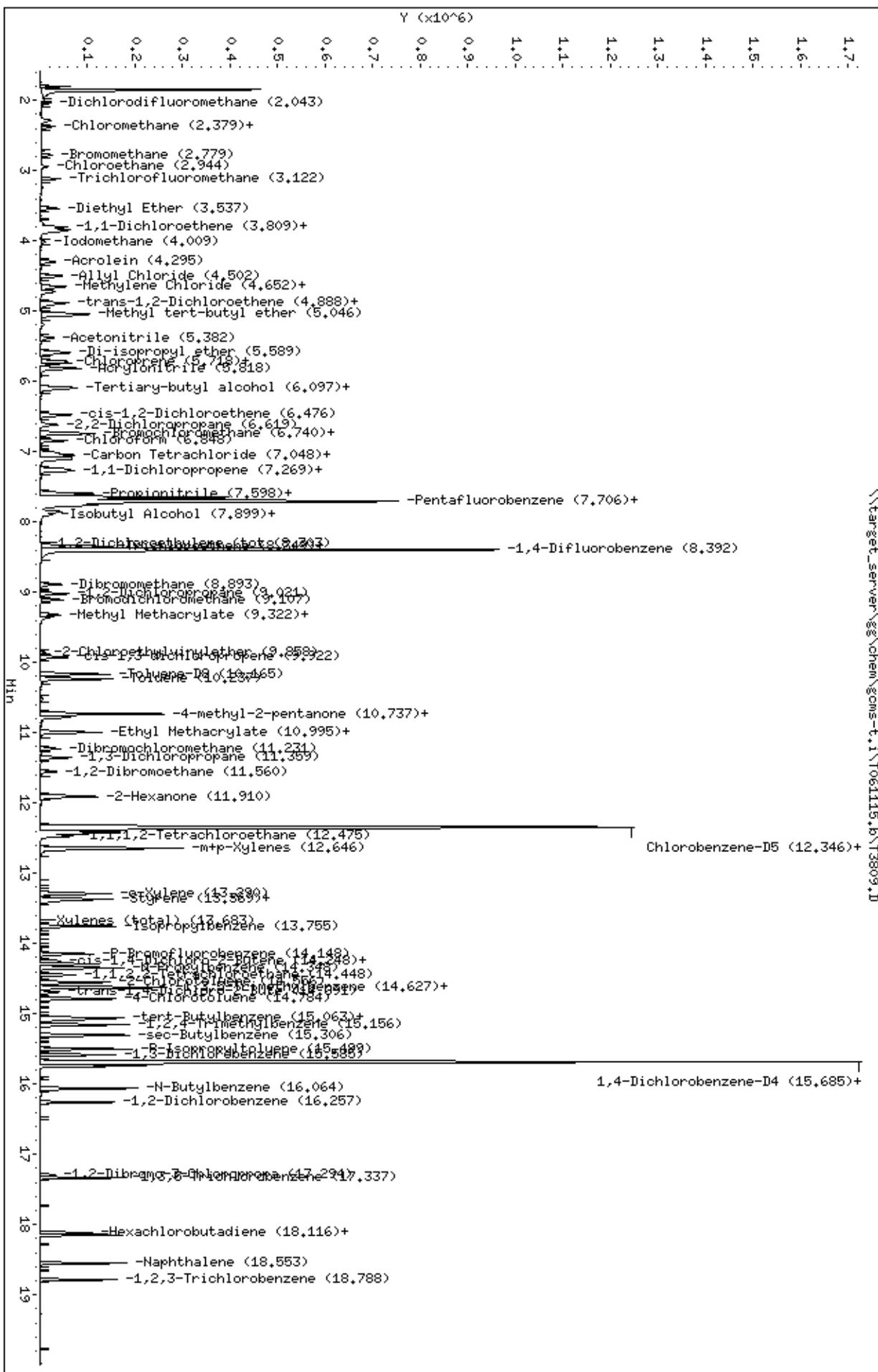
Sample Info: WG164633-2

Purge Volume: 5.0

Column Phase: RTX-VHS

Instrument: goms-t.i  
Operator: EME  
Column diameter: 0.18

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Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3811.D  
Report Date: 12-Jun-2015 08:09

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3811.D  
Lab Smp Id: WG164633-6 Client Smp ID: Initial Calibration  
Inj Date : 11-JUN-2015 15:42 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-6  
Misc Info :  
Comment : SW846 5030  
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Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 15:42 Cal File: T3811.D  
Als bottle: 6 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		736096	200.000	202(A)	
2 Chloromethane	50	2.271	2.279 (0.295)		1072975	200.000	200(A)	
3 Vinyl chloride	62	2.378	2.379 (0.308)		1056756	200.000	200(A)	
4 Bromomethane	94	2.779	2.779 (0.360)		741424	200.000	231(A)	
5 Chloroethane	64	2.943	2.937 (0.382)		652566	200.000	204(A)	
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		1439174	200.000	205(A)	
7 Diethyl Ether	59	3.537	3.537 (0.459)		893926	200.000	198	
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		2929152	1000.00	1090(A)	
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		1074661	200.000	207(A)	
10 Carbon Disulfide	76	3.844	3.845 (0.498)		2799792	200.000	200(A)	
11 Freon-113	151	3.873	3.866 (0.502)		716155	200.000	202(A)	
12 Iodomethane	142	4.009	4.009 (0.520)		934791	200.000	205(A)	
13 Acrolein	56	4.295	4.295 (0.557)		830022	1000.00	704	
14 Methylene Chloride	84	4.652	4.653 (0.603)		1268151	200.000	201(A)	
15 Acetone	43	4.724	4.717 (0.612)		780912	1000.00	437	
16 Isobutyl Alcohol	43	7.898	7.899 (1.024)		128421	4000.00	811	
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		1140241	200.000	205(A)	
18 Allyl Chloride	41	4.495	4.495 (0.583)		1451544	200.000	210(A)	
19 Methyl tert-butyl ether	73	5.045	5.046 (0.654)		5148353	400.000	376	
20 Acetonitrile	39	5.374	5.375 (0.697)		117239	2000.00	840	
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		3065002	200.000	221(A)	
22 Chloroprene	53	5.717	5.711 (0.741)		1524125	200.000	214(A)	
23 Propionitrile	54	7.627	7.620 (0.989)		900240	2000.00	1030	
24 Methacrylonitrile	41	7.662	7.656 (0.994)		4341954	2000.00	1290	

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3811.D  
 Report Date: 12-Jun-2015 08:09

Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.745)		1915544	200.000	206(A)			
26 Acrylonitrile	52	5.818	5.811 (0.754)		1411663	1000.00	652			
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		2929152	200.000	218(A)			
28 Vinyl Acetate	43	6.104	6.104 (0.727)		1973929	200.000	198			
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		1413909	200.000	205(A)			
31 Methyl Methacrylate	41	9.314	9.315 (1.109)		725553	200.000	162			
32 2,2-Dichloropropane	77	6.618	6.619 (0.858)		1382467	200.000	228(A)			
33 Bromochloromethane	128	6.740	6.740 (0.874)		626724	200.000	206(A)			
34 Chloroform	83	6.847	6.848 (0.888)		1912310	200.000	203(A)			
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		1340391	200.000	212(A)			
36 Tetrahydrofuran	42	7.040	7.041 (0.913)		987696	1000.00	568			
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.918)		1132613	200.000	208(A)			
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.921)		1614029	200.000	214(A)			
39 1,1-Dichloropropene	75	7.269	7.270 (0.865)		1584411	200.000	208(A)			
40 2-Butanone	43	7.240	7.241 (0.939)		1407121	1000.00	520			
41 Benzene	78	7.591	7.591 (0.904)		4355972	200.000	191			
* 42 Pentafluorobenzene	168	7.712	7.706 (1.000)		595466	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.874)		1625119	200.000	213(A)			
44 Ethyl Methacrylate	69	10.994	10.995 (1.309)		1301235	200.000	168			
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.007)		1111481	200.000	192			
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		2605371	200.000	203(A)			
47 1,2-Dichloroethane	62	7.855	7.856 (0.935)		1346283	200.000	188			
48 Trichloroethene	95	8.356	8.349 (0.995)		1243170	200.000	212(A)			
* 49 1,4-Difluorobenzene	114	8.399	8.391 (1.000)		951581	50.0000				
50 Dibromomethane	93	8.892	8.886 (1.059)		703876	200.000	186			
51 1,2-Dichloropropane	63	9.021	9.021 (1.074)		1188812	200.000	208(A)			
52 Bromodichloromethane	83	9.107	9.107 (1.084)		1473920	200.000	205(A)			
53 cis-1,3-dichloropropene	75	9.929	9.922 (1.182)		1861840	200.000	216(A)			
54 1,4-Dioxane	88	9.364	9.357 (1.115)		14854	4000.00	145			
\$ 55 Toluene-D8	98	10.165	10.165 (1.210)		3849872	200.000	181			
56 2-Chloroethylvinylether	63	9.850	9.851 (1.173)		112681	200.000	113			
57 Toluene	92	10.236	10.237 (1.219)		2773446	200.000	192			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.278)		2978188	1000.00	573			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		1021865	200.000	201(A)			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.283)		1510984	200.000	211(A)			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.308)		864225	200.000	182			
62 Dibromochloromethane	129	11.230	11.224 (0.910)		1203323	200.000	207(A)			
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		1814678	200.000	190			
64 1,2-Dibromoethane	107	11.559	11.553 (1.376)		1063892	200.000	183			
65 2-Hexanone	43	11.902	11.903 (0.964)		2057756	1000.00	568			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		839592	50.0000				
67 Chlorobenzene	112	12.374	12.368 (1.002)		3142466	200.000	190			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		1595699	200.000	196			
69 Ethylbenzene	106	12.424	12.418 (1.006)		1772477	200.000	197			
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		1174879	200.000	218(A)			
72 m+p-Xylenes	106	12.653	12.647 (1.025)		3928766	400.000	367			
73 o-Xylene	106	13.290	13.290 (1.076)		2084615	200.000	204(A)			
74 Styrene	104	13.368	13.369 (1.083)		3363052	200.000	194			
75 Bromoform	173	13.397	13.397 (1.085)		810612	200.000	189			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		4568093	200.000	179			
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.684)		1571295	200.000	186			
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		343516	200.000	161			
79 trans-1,4-Dichloro-2-Butene	53	14.698	14.692 (0.937)		280993	200.000	157			
80 Bromobenzene	156	14.291	14.291 (0.911)		1494203	200.000	196			

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
81 N-Propylbenzene	91	14.348	14.348 (0.915)		5066461	200.000	170	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		1261293	200.000	153	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		4161267	200.000	184	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		3383407	200.000	185	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		942520	200.000	142	
86 4-Chlorotoluene	91	14.791	14.785 (0.943)		3547962	200.000	177	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		4283308	200.000	190	
88 Pentachloroethane	117	15.084	15.085 (0.962)		1032180	200.000	210(A)	
89 1,2,4-Trimethylbenzene	105	15.163	15.156 (0.967)		4123591	200.000	182	
90 P-Isopropyltoluene	119	15.506	15.500 (0.989)		4411008	200.000	178	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		2661351	200.000	186	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		480634	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		2714295	200.000	184	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		3933693	200.000	173	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		4803435	200.000	173	
96 1,2-Dichlorobenzene	146	16.264	16.257 (1.037)		2563734	200.000	185	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		199873	200.000	119	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		2157166	200.000	185	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		852381	200.000	188	
100 1,2,4-Trichlorobenzene	180	18.152	18.145 (1.157)		1935533	200.000	179	
101 1,2,3-Trimethylbenzene	105	15.749	15.743 (1.004)		4246837	200.000	175	
102 Naphthalene	128	18.552	18.553 (1.183)		3170681	200.000	121	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		1654112	200.000	154	
104 Methyl Acetate	43	4.909	4.910 (0.637)		633413	200.000	129	
105 Methylcyclohexane	83	8.342	8.342 (1.082)		1912524	200.000	207(A)	

#### QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3841.D  
Date : 11-JUN-2015 15:42

Client ID: Initial Calibration

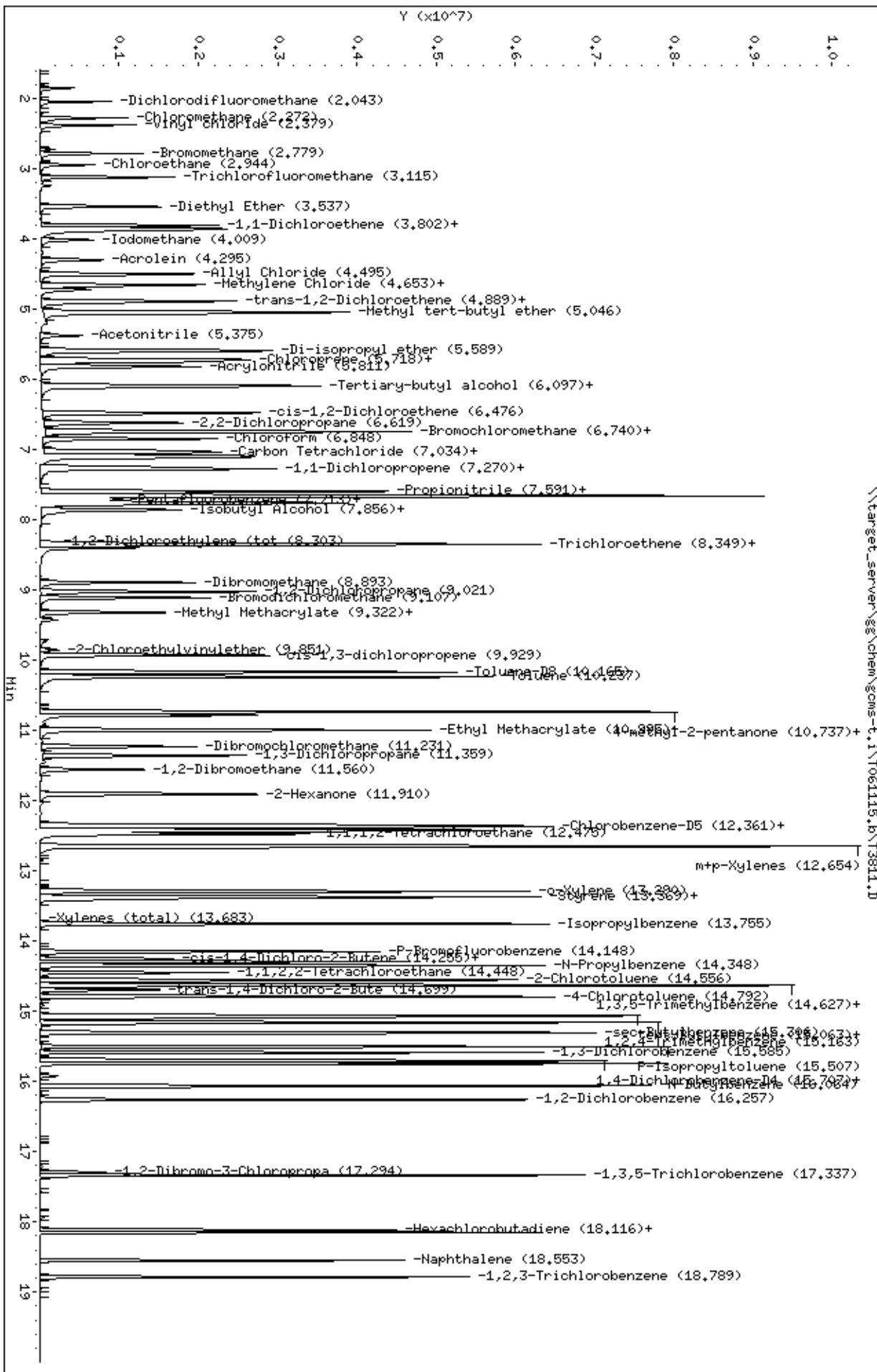
Sample Info: WG164633-6

Purge Volume: 5.0

Column Phase: RTX-VHS

Instrument: goms-t.i  
Operator: EME  
Column diameter: 0.18

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Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3812.D  
Report Date: 12-Jun-2015 08:09

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Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3812.D  
Lab Smp Id: WG164633-5 Client Smp ID: Initial Calibration  
Inj Date : 11-JUN-2015 16:17 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-5  
Misc Info :  
Comment : SW846 5030  
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Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 16:17 Cal File: T3812.D  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW	CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)		
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		344015	100.000	92.9		
2 Chloromethane	50	2.278	2.279 (0.296)		520486	100.000	95.6		
3 Vinyl chloride	62	2.378	2.379 (0.309)		537427	100.000	100		
4 Bromomethane	94	2.779	2.779 (0.361)		343162	100.000	105		
5 Chloroethane	64	2.929	2.937 (0.380)		189683	100.000	58.3		
6 Trichlorofluoromethane	101	3.108	3.115 (0.403)		690052	100.000	96.7		
7 Diethyl Ether	59	3.537	3.537 (0.459)		475174	100.000	104		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		1545953	500.000	567		
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		515190	100.000	97.8		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		1400823	100.000	98.7		
11 Freon-113	151	3.866	3.866 (0.502)		329760	100.000	91.5		
12 Iodomethane	142	4.009	4.009 (0.520)		403672	100.000	90.0		
13 Acrolein	56	4.295	4.295 (0.557)		657551	500.000	549		
14 Methylene Chloride	84	4.652	4.653 (0.604)		624003	100.000	97.6		
15 Acetone	43	4.724	4.717 (0.613)		779365	500.000	429		
16 Isobutyl Alcohol	43	7.905	7.899 (1.026)		408952	2000.00	2540		
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		563361	100.000	99.7		
18 Allyl Chloride	41	4.495	4.495 (0.583)		707367	100.000	101		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		3069479	200.000	221		
20 Acetonitrile	39	5.374	5.375 (0.698)		138030	1000.00	974		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		1578748	100.000	112		
22 Chloroprene	53	5.710	5.711 (0.741)		746934	100.000	103		
23 Propionitrile	54	7.627	7.620 (0.990)		937913	1000.00	1060		
24 Methacrylonitrile	41	7.655	7.656 (0.994)		3372062	1000.00	987		

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3812.D  
 Report Date: 12-Jun-2015 08:09

Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		941397	100.000	99.8			
26 Acrylonitrile	52	5.810	5.811 (0.754)		1169228	500.000	532			
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		1545953	100.000	113			
28 Vinyl Acetate	43	6.104	6.104 (0.727)		1253105	100.000	106			
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		700427	100.000	100			
31 Methyl Methacrylate	41	9.314	9.315 (1.110)		516994	100.000	115			
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		646899	100.000	105			
33 Bromochloromethane	128	6.740	6.740 (0.875)		278708	100.000	90.2			
34 Chloroform	83	6.847	6.848 (0.889)		941610	100.000	98.7			
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		629689	100.000	99.1			
36 Tetrahydrofuran	42	7.040	7.041 (0.914)		908790	500.000	515			
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		581225	100.000	105			
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		781304	100.000	102			
39 1,1-Dichloropropene	75	7.269	7.270 (0.866)		766468	100.000	100			
40 2-Butanone	43	7.241	7.241 (0.940)		1346097	500.000	490			
41 Benzene	78	7.591	7.591 (0.905)		2277498	100.000	99.0			
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		604283	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.875)		770880	100.000	99.8			
44 Ethyl Methacrylate	69	10.994	10.995 (1.310)		851660	100.000	110			
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		603506	100.000	102			
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		1462708	100.000	112			
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		683670	100.000	95.0			
48 Trichloroethene	95	8.349	8.349 (0.995)		616328	100.000	104			
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		958403	50.0000				
50 Dibromomethane	93	8.892	8.886 (1.060)		372243	100.000	97.5			
51 1,2-Dichloropropane	63	9.021	9.021 (1.075)		572210	100.000	99.6			
52 Bromodichloromethane	83	9.107	9.107 (1.085)		720332	100.000	99.4			
53 cis-1,3-dichloropropene	75	9.922	9.922 (1.182)		923238	100.000	106			
54 1,4-Dioxane	88	9.364	9.357 (1.116)		185343	2000.00	1800			
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		2191951	100.000	102			
56 2-Chloroethylvinylether	63	9.850	9.851 (1.174)		131879	100.000	131			
57 Toluene	92	10.236	10.237 (1.220)		1447714	100.000	99.6			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		2534345	500.000	484			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		493618	100.000	98.0			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		794482	100.000	110			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		486881	100.000	102			
62 Dibromochloromethane	129	11.230	11.224 (0.910)		631322	100.000	110			
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		1014243	100.000	107			
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		609868	100.000	104			
65 2-Hexanone	43	11.910	11.903 (0.965)		1856196	500.000	517			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		832186	50.0000				
67 Chlorobenzene	112	12.374	12.368 (1.002)		1614281	100.000	98.6			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		776955	100.000	96.1			
69 Ethylbenzene	106	12.424	12.418 (1.006)		887239	100.000	99.7			
70 1,1,1,2-Tetrachloroethane	131	12.475	12.475 (1.010)		572923	100.000	107			
72 m+p-Xylenes	106	12.646	12.647 (1.024)		2083248	200.000	196			
73 o-Xylene	106	13.290	13.290 (1.076)		1046286	100.000	103			
74 Styrene	104	13.368	13.369 (1.083)		1765127	100.000	103			
75 Bromoform	173	13.397	13.397 (1.085)		472093	100.000	111			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		2469729	100.000	99.0			
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.686)		833972	100.000	98.0			
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		244596	100.000	117			
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		202386	100.000	116			
80 Bromobenzene	156	14.291	14.291 (0.911)		747903	100.000	100			

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3812.D  
 Report Date: 12-Jun-2015 08:09

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
81 N-Propylbenzene	91	14.348	14.348 (0.915)		2821716	100.000	96.6	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		840137	100.000	104	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		2222145	100.000	100	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		1759828	100.000	98.2	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		664554	100.000	102	
86 4-Chlorotoluene	91	14.791	14.785 (0.943)		1876700	100.000	95.6	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		2235009	100.000	102	
88 Pentachloroethane	117	15.084	15.085 (0.962)		496706	100.000	104	
89 1,2,4-Trimethylbenzene	105	15.163	15.156 (0.967)		2205370	100.000	99.3	
90 P-Isopropyltoluene	119	15.506	15.500 (0.989)		2391309	100.000	98.8	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		1362901	100.000	97.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		470119	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		1391661	100.000	96.4	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		2137969	100.000	96.2	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		2656991	100.000	97.6	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		1336133	100.000	98.5	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		161281	100.000	98.3	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		1100258	100.000	96.7	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		416364	100.000	93.7	
100 1,2,4-Trichlorobenzene	180	18.152	18.145 (1.157)		1033805	100.000	97.9	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		2335129	100.000	98.4	
102 Naphthalene	128	18.552	18.553 (1.183)		2455751	100.000	95.7	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		976185	100.000	93.2	
104 Methyl Acetate	43	4.910	4.910 (0.637)		520141	100.000	104	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		946958	100.000	101	

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Date : 11-JUN-2015 16:17

Client ID: Initial Calibration

Sample Info: WG164633-5

Purge Volume: 5.0

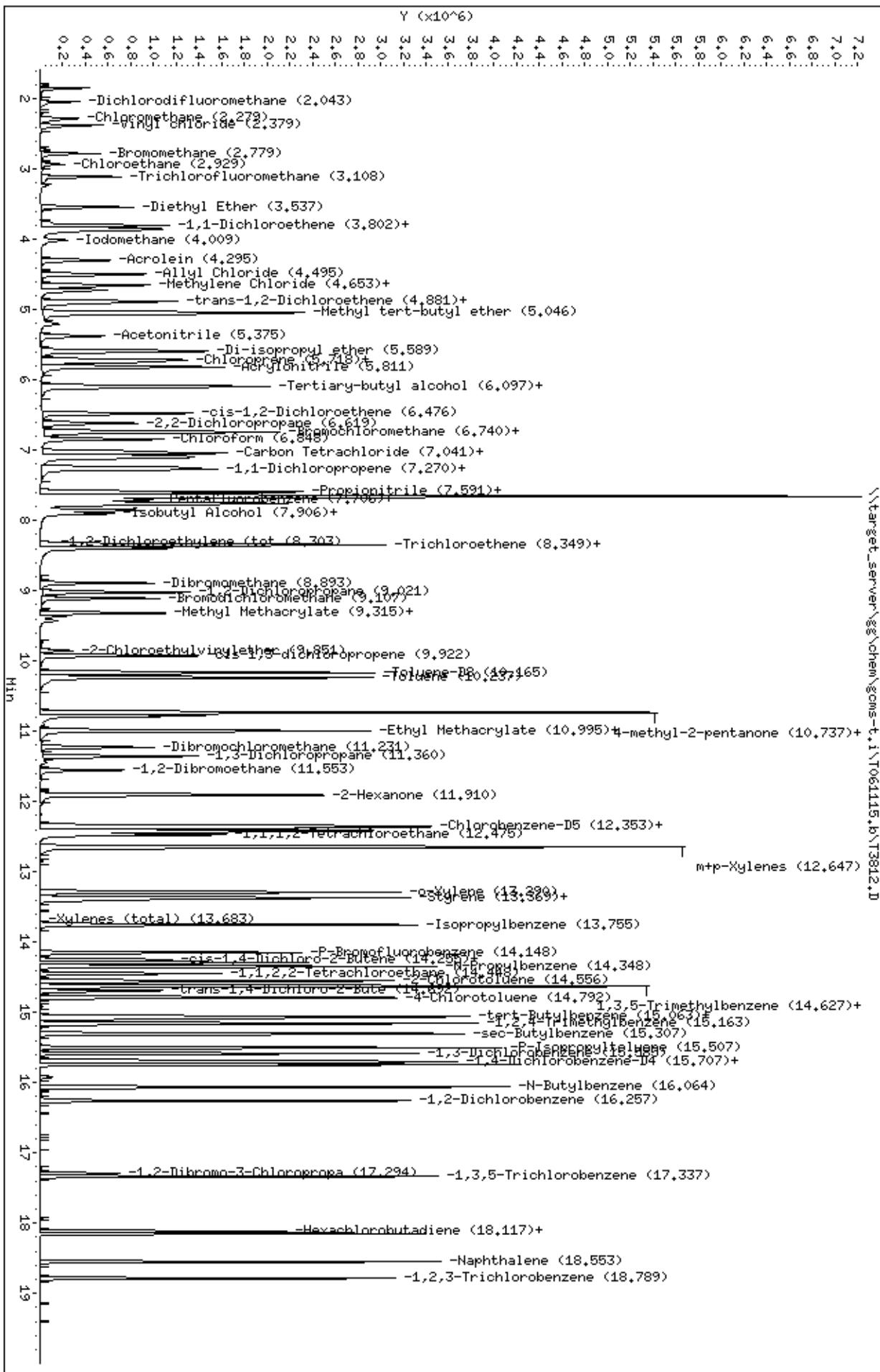
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Instrument: goms-t.i

Operator: EME

Column diameter: 0.18

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Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3815.D  
Report Date: 12-Jun-2015 08:09

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3815.D  
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Inj Date : 11-JUN-2015 18:22 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-1  
Misc Info :  
Comment : SW846 5030  
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Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 10 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		3646	1.00000	1.1	
2 Chloromethane	50	2.285	2.279 (0.297)		6280	1.00000	1.2	
3 Vinyl chloride	62	2.371	2.379 (0.308)		5341	1.00000	1.1	
4 Bromomethane	94	2.779	2.779 (0.361)		2945	1.00000	0.98(a)	
5 Chloroethane	64	2.943	2.937 (0.382)		4341	1.00000	1.4	
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		7691	1.00000	1.2	
7 Diethyl Ether	59	3.537	3.537 (0.459)		4056	1.00000	0.96(a)	
8 Tertiary-butyl alcohol	59	6.096	6.090 (0.791)		9571	5.00000	3.8(a)	
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		5176	1.00000	1.1	
10 Carbon Disulfide	76	3.837	3.845 (0.498)		14259	1.00000	1.1	
11 Freon-113	151	3.873	3.866 (0.503)		4128	1.00000	1.2	
12 Iodomethane	142	4.009	4.009 (0.520)		5123	1.00000	5.6(M)	M6
13 Acrolein	56	4.295	4.295 (0.557)		4960	5.00000	4.5(a)	
14 Methylene Chloride	84	4.652	4.653 (0.604)		12649	1.00000	2.2(a)	
15 Acetone	43	4.731	4.717 (0.614)		9440	5.00000	5.6	
16 Isobutyl Alcohol	43	7.913	7.899 (1.027)		2377	20.0000	16.0(a)	
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		5800	1.00000	1.1	REC
18 Allyl Chloride	41	4.502	4.495 (0.584)		6326	1.00000	0.98(a)	8:33 am, Jun 12, 2015
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		20226	2.00000	1.6	
20 Acetonitrile	39	5.389	5.375 (0.699)		1607	10.0000	12.3(aM)	M9
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		9576	1.00000	0.74(a)	
22 Chloroprene	53	5.717	5.711 (0.742)		6484	1.00000	0.97(a)	
23 Propionitrile	54	7.619	7.620 (0.989)		8102	10.0000	9.9(a)	
24 Methacrylonitrile	41	7.655	7.656 (0.994)		31900	10.0000	10.1	

Compounds	QUANT SIG							AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	ON-COL		
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		8570	1.00000	0.99(a)			
26 Acrylonitrile	52	5.818	5.811 (0.755)		9780	5.00000	4.8(a)			
27 Ethyl tertiary-butyl ether	59	6.096	6.090 (0.791)		9571	1.00000	0.76(a)			
28 Vinyl Acetate	43	6.111	6.104 (0.728)		6673	1.00000	2.8(M)		M6	
29 cis-1,2-Dichloroethene	96	6.483	6.476 (0.841)		6649	1.00000	1.0			
31 Methyl Methacrylate	41	9.321	9.315 (1.111)		3603	1.00000	0.92(a)			
32 2,2-Dichloropropane	77	6.611	6.619 (0.858)		4736	1.00000	0.84(aM)		M9	
33 Bromochloromethane	128	6.740	6.740 (0.875)		2761	1.00000	0.97(a)			
34 Chloroform	83	6.840	6.848 (0.888)		9157	1.00000	1.0			
35 Carbon Tetrachloride	117	7.012	7.019 (0.836)		5470	1.00000	0.99(a)			
36 Tetrahydrofuran	42	7.055	7.041 (0.916)		6499	5.00000	4.0(a)			
\$ 37 Dibromofluoromethane	113	7.090	7.084 (0.920)		4870	1.00000	0.96(a)			
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		6587	1.00000	0.94(a)			
39 1,1-Dichloropropene	75	7.276	7.270 (0.867)		6365	1.00000	0.96(a)			
40 2-Butanone	43	7.255	7.241 (0.942)		8749	5.00000	2.1(a)			
41 Benzene	78	7.591	7.591 (0.905)		20490	1.00000	1.0			
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		556474	50.0000				
43 Cyclohexane	56	6.740	6.740 (0.875)		6480	1.00000	0.91(a)			
44 Ethyl Methacrylate	69	11.001	10.995 (1.311)		5861	1.00000	0.87(a)			
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		5289	1.00000	0.98(a)			
46 Tertiary-amyl methyl ether	73	7.762	7.749 (1.007)		9987	1.00000	0.83(a)			
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		7125	1.00000	1.1			
48 Trichloroethene	95	8.349	8.349 (0.995)		4765	1.00000	0.93(a)			
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		833716	50.0000				
50 Dibromomethane	93	8.892	8.886 (1.060)		3477	1.00000	1.0			
51 1,2-Dichloropropane	63	9.014	9.021 (1.074)		4649	1.00000	0.93(aM)		M6	
52 Bromodichloromethane	83	9.107	9.107 (1.085)		5998	1.00000	0.95(a)			
53 cis-1,3-dichloropropene	75	9.922	9.922 (1.182)		5972	1.00000	0.79(a)			
54 1,4-Dioxane	88	9.371	9.357 (1.117)		1883	20.0000	21.0			
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		21610	1.00000	1.2			
57 Toluene	92	10.236	10.237 (1.220)		12716	1.00000	1.0			
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		19984	5.00000	4.4(a)			
59 Tetrachloroethene	164	10.737	10.737 (0.870)		5616	1.00000	1.2			
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		4741	1.00000	0.76(a)			
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		4046	1.00000	0.98(a)			
62 Dibromochloromethane	129	11.223	11.224 (0.909)		4832	1.00000	0.87(a)			
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		8320	1.00000	0.91(a)			
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		4550	1.00000	0.90(aM)		M6	
65 2-Hexanone	43	11.917	11.903 (0.965)		13504	5.00000	3.9(a)			
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		805568	50.0000				
67 Chlorobenzene	112	12.374	12.368 (1.002)		17028	1.00000	1.1			
68 1-Chlorohexane	91	12.353	12.353 (1.001)		9640	1.00000	1.2			
69 Ethylbenzene	106	12.417	12.418 (1.006)		9178	1.00000	1.1			
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		4755	1.00000	0.92(a)			
72 m+p-Xylenes	106	12.646	12.647 (1.024)		22669	2.00000	2.2			
73 o-Xylene	106	13.290	13.290 (1.076)		9386	1.00000	0.96(a)			
74 Styrene	104	13.375	13.369 (1.083)		15636	1.00000	0.94(a)			
75 Bromoform	173	13.404	13.397 (1.086)		3952	1.00000	0.96(Ta)			
76 Isopropylbenzene	105	13.754	13.755 (0.877)		25286	1.00000	1.1			
\$ 77 p-Bromofluorobenzene	95	14.155	14.148 (1.687)		9006	1.00000	1.2			
78 cis-1,4-Dichloro-2-Butene	53	14.255	14.248 (0.909)		1491	1.00000	0.75(a)			
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		1346	1.00000	0.81(a)			
80 Bromobenzene	156	14.298	14.291 (0.912)		7381	1.00000	1.0			
81 N-Propylbenzene	91	14.348	14.348 (0.915)		30428	1.00000	1.1			

REC  
8:33 am, Jun 12, 2015

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		7640	1.00000	0.99(a)	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		21007	1.00000	1.00	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		17661	1.00000	1.0	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		6828	1.00000	1.1	
86 4-Chlorotoluene	91	14.791	14.785 (0.943)		21566	1.00000	1.2	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		21137	1.00000	1.0	
88 Pentachloroethane	117	15.077	15.085 (0.961)		4522	1.00000	0.99(a)	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		21949	1.00000	1.0	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		24800	1.00000	1.1	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		14692	1.00000	1.1	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		447094	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		15725	1.00000	1.1	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		24189	1.00000	1.1	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		27762	1.00000	1.1	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		14045	1.00000	1.1	
97 1,2-Dibromo-3-Chloropropane	75	17.287	17.294 (1.102)		1560	1.00000	1.00(M)	M9
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		13350	1.00000	1.2	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		5271	1.00000	1.2	
100 1,2,4-Trichlorobenzene	180	18.145	18.145 (1.157)		11904	1.00000	1.2	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		23905	1.00000	1.0	
102 Naphthalene	128	18.552	18.553 (1.183)		23807	1.00000	0.98(a)	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		12260	1.00000	1.2	
104 Methyl Acetate	43	4.917	4.910 (0.638)		3811	1.00000	0.83(a)	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		9049	1.00000	1.0	

*BEC*  
8:33 am, Jun 12, 2015

### QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3815.D  
Date : 11-JUN-2015 18:22

Client ID: Initial Calibration

Sample Info: WG164633-1

Purge Volume: 5.0

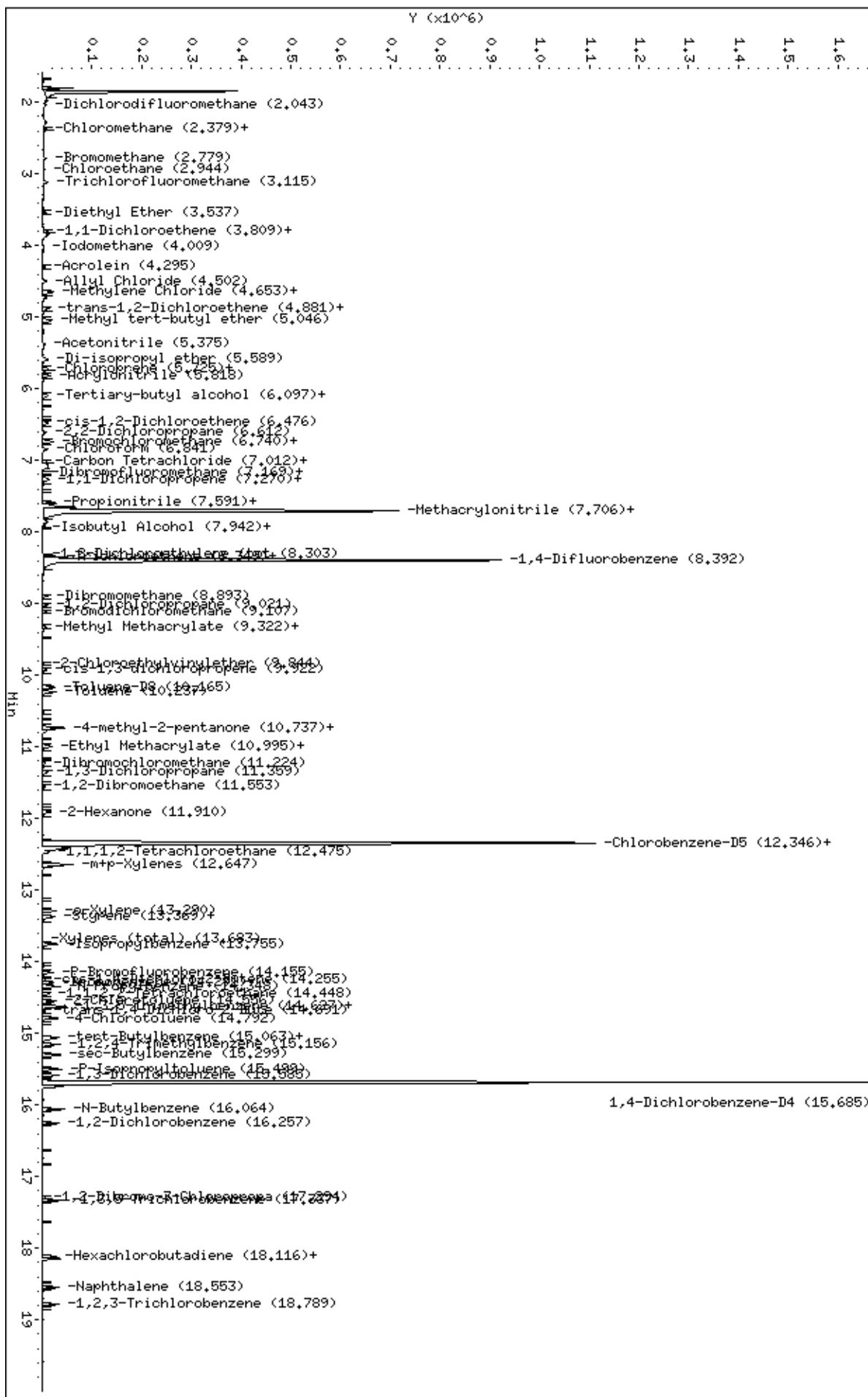
Column Phase: RTX-VHS

Instrument: goms-t.i

Operator: EME

Column diameter: 0.18

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Injection Date: 11-JUN-2015 18:22

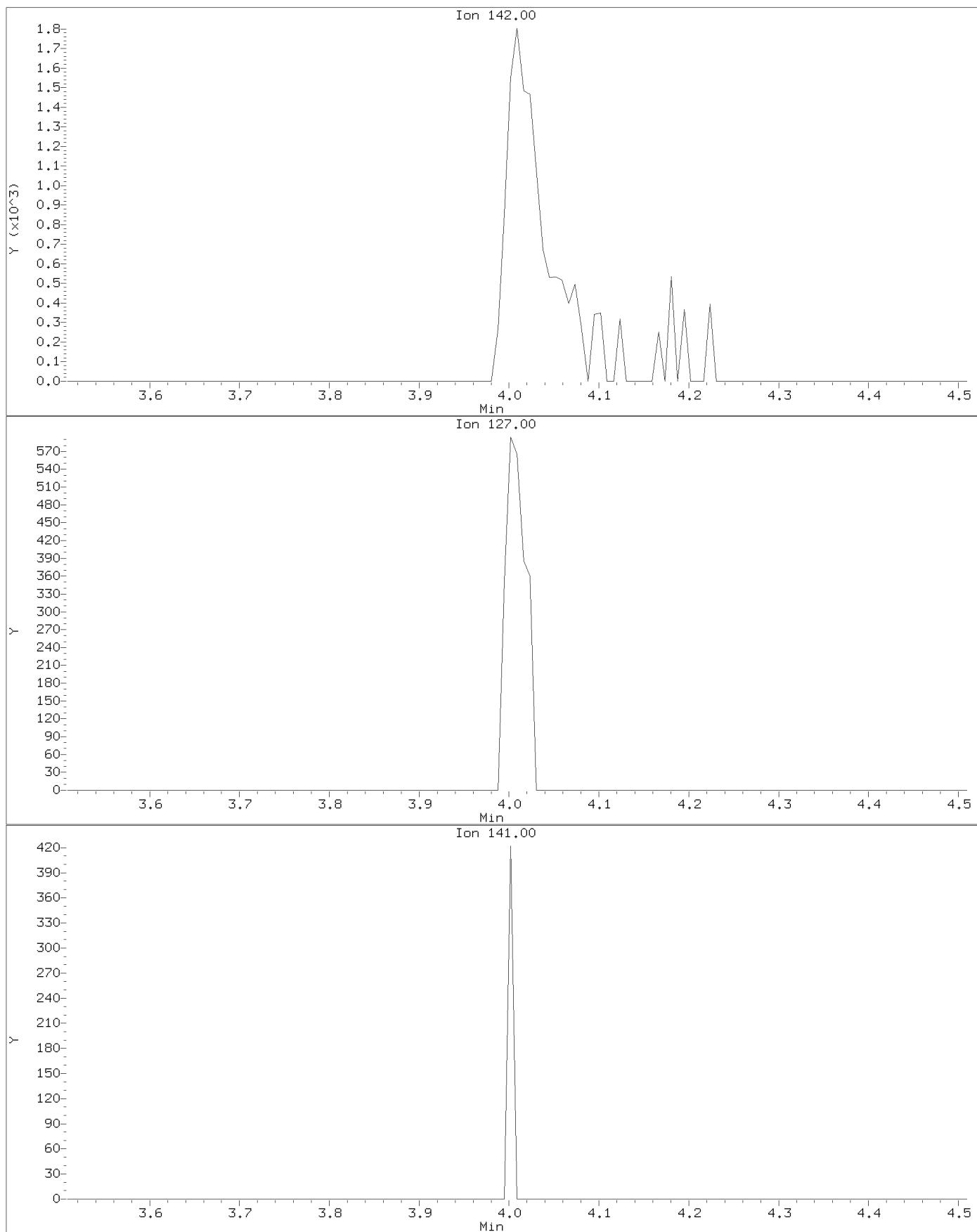
Instrument: gcms-t.i

Client Sample ID:

Compound: Iodomethane

CAS Number: 74-88-4

## BEFORE MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

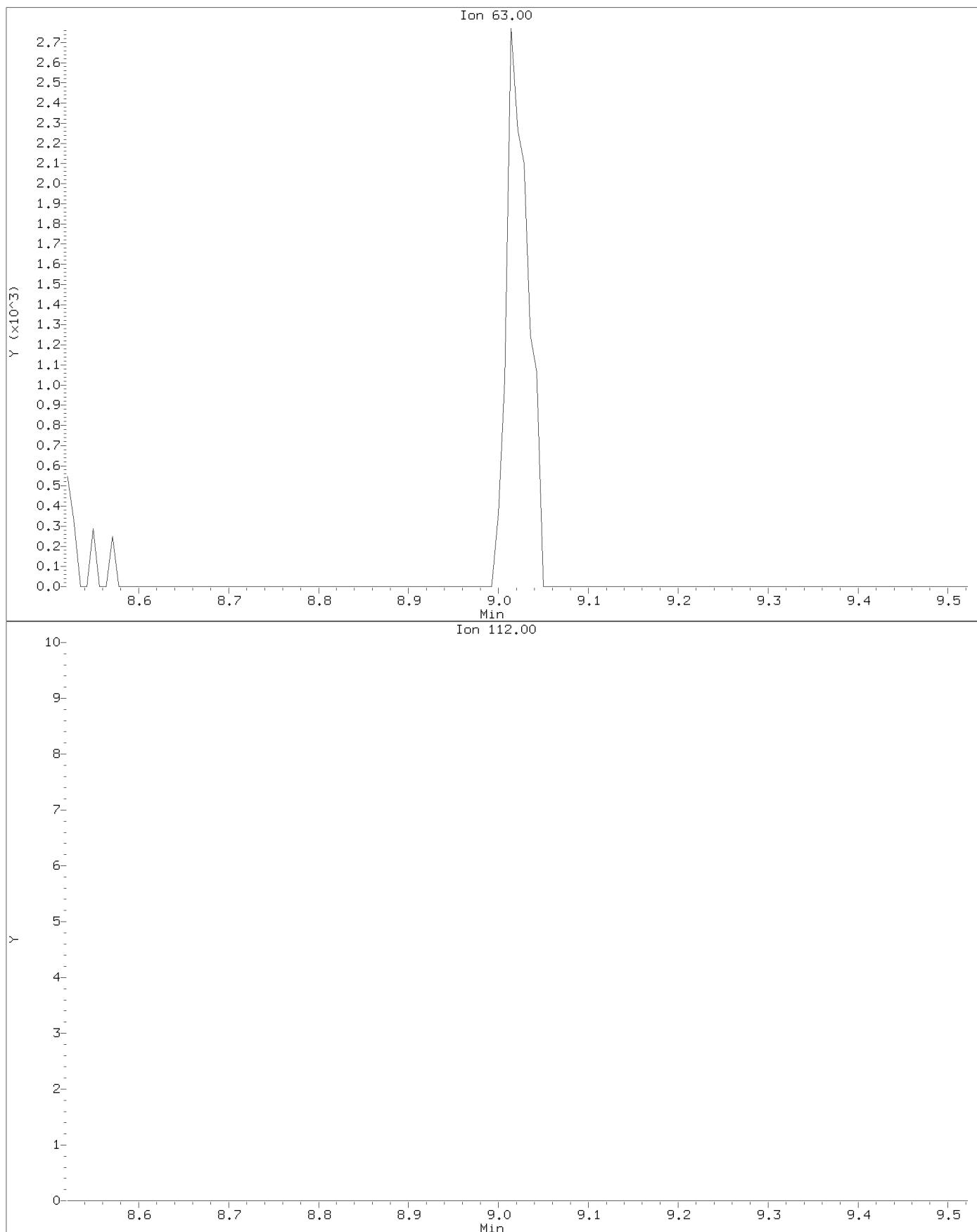
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Client Sample ID:

Compound: 1,2-Dichloropropane

CAS Number: 78-87-5

## BEFORE MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

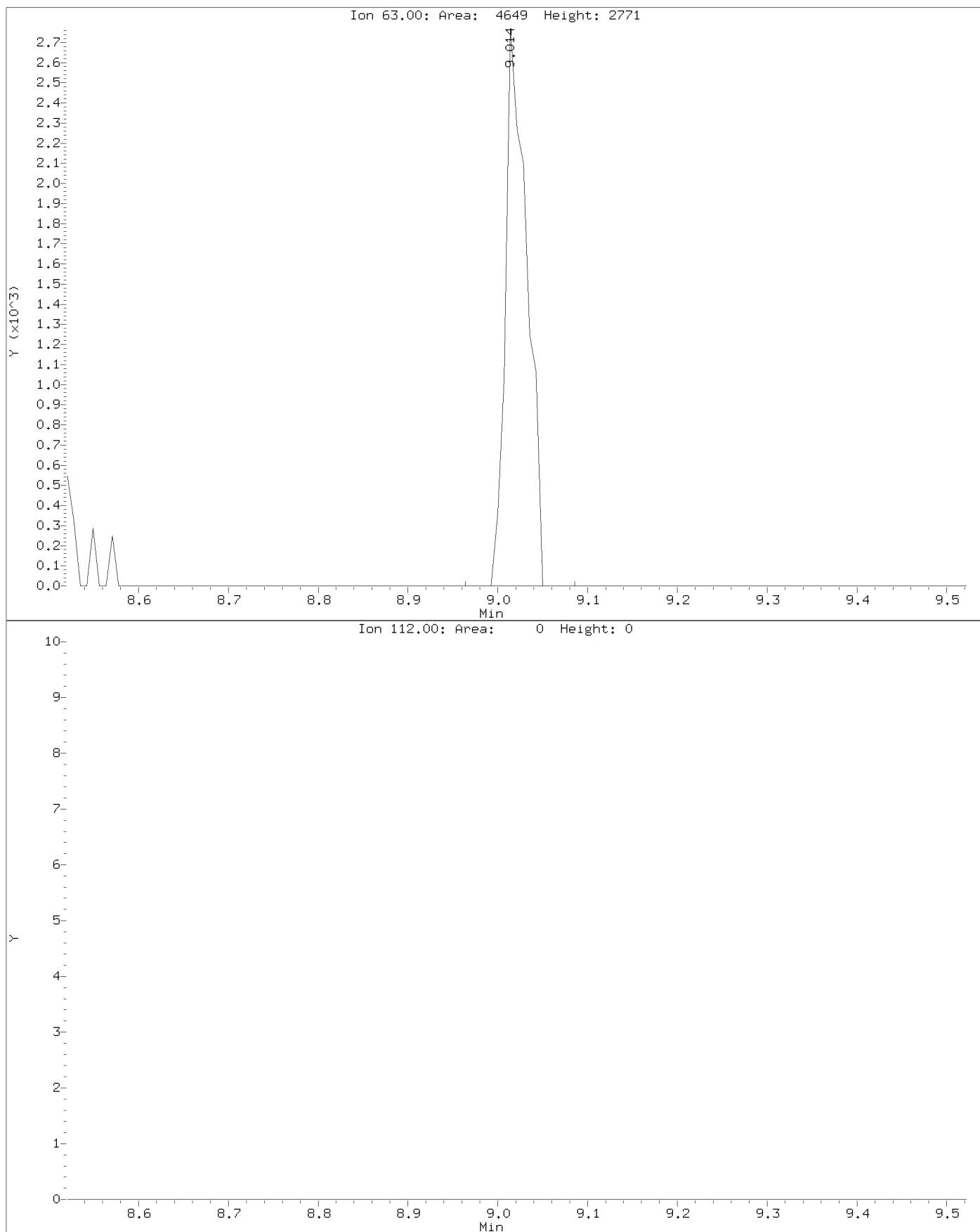
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Client Sample ID:

Compound: 1,2-Dichloropropane

CAS Number: 78-87-5

## AFTER MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

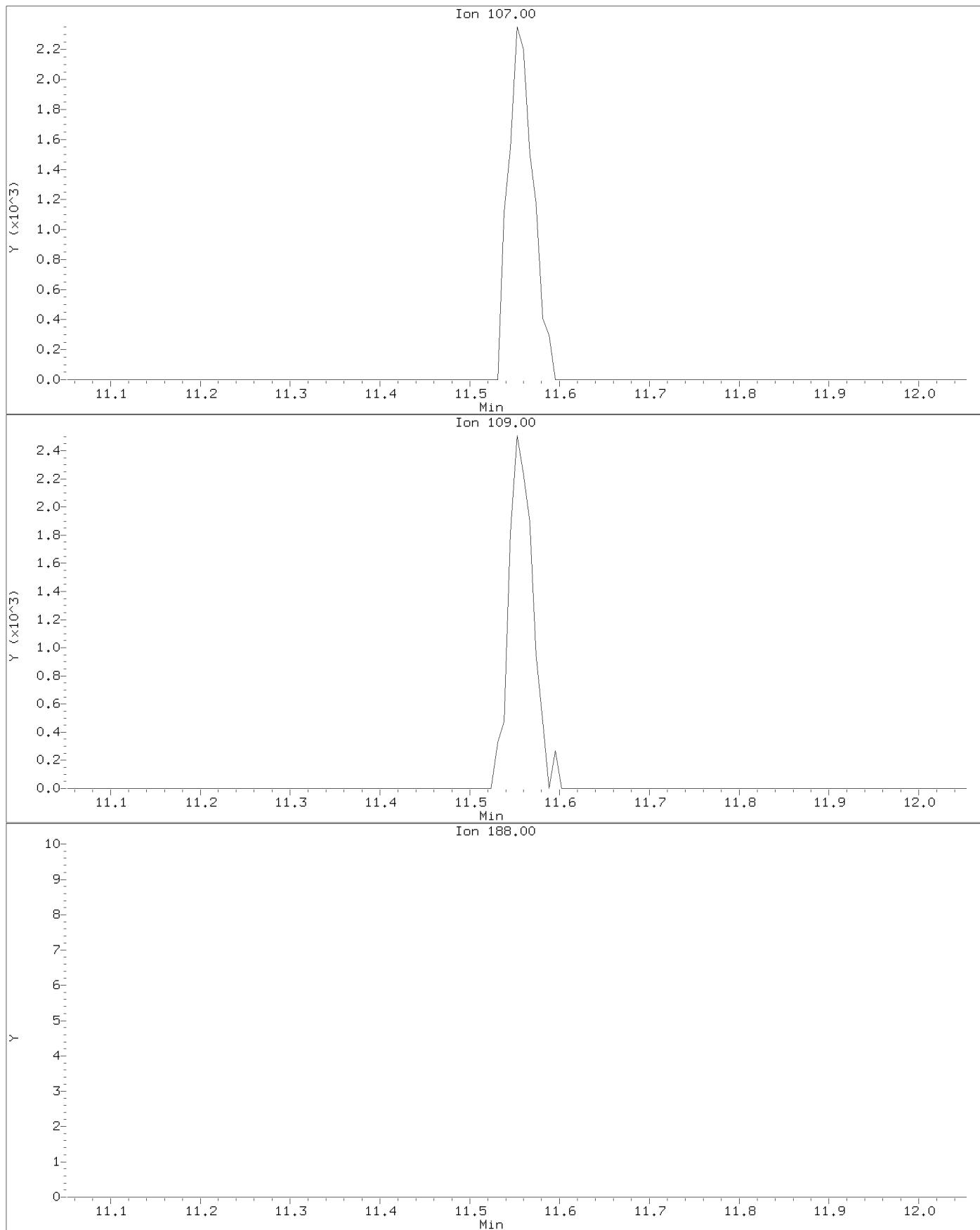
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Client Sample ID:

Compound: 1,2-Dibromoethane

CAS Number: 106-93-4

## BEFORE MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

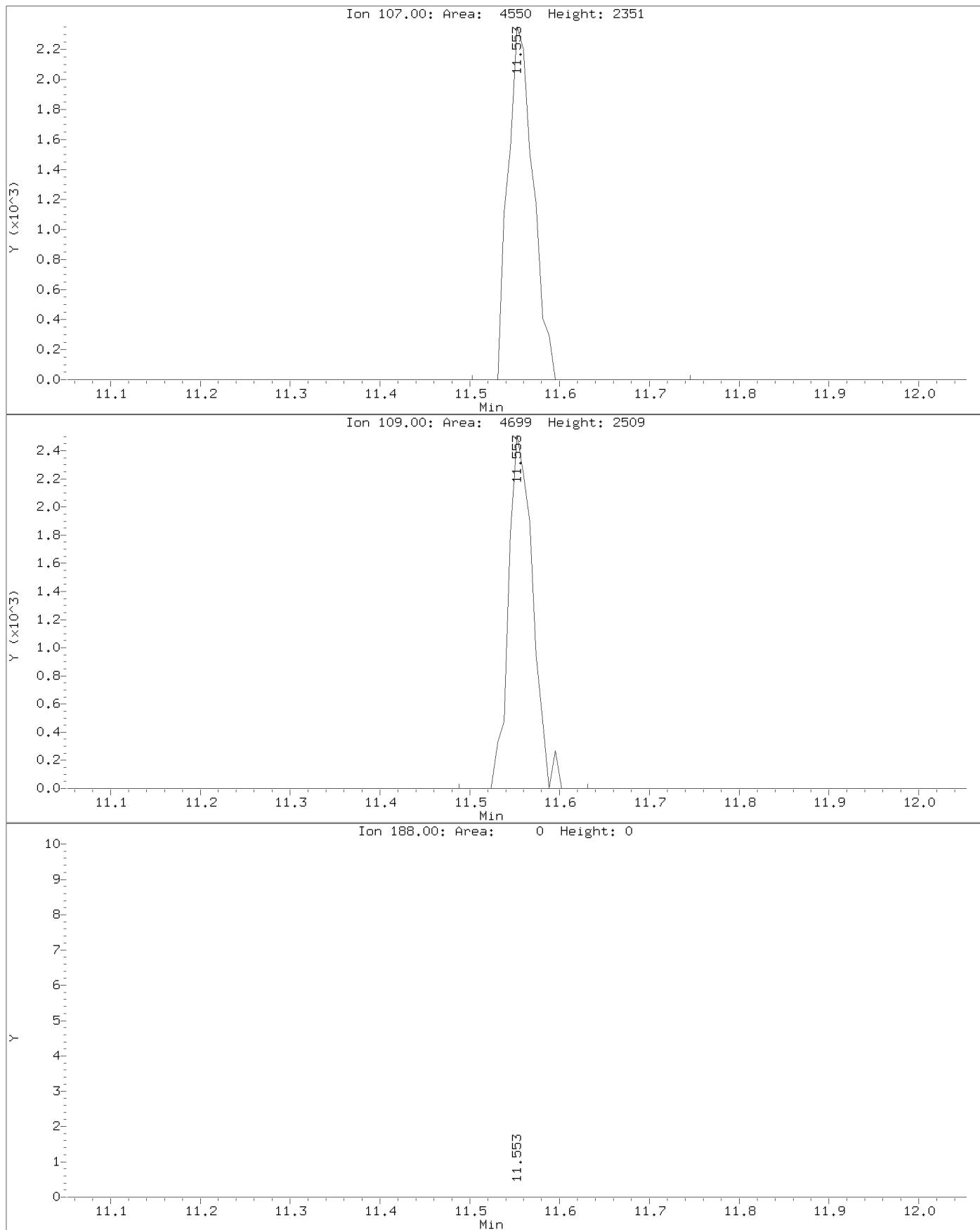
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Client Sample ID:

Compound: 1,2-Dibromoethane

CAS Number: 106-93-4

## AFTER MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

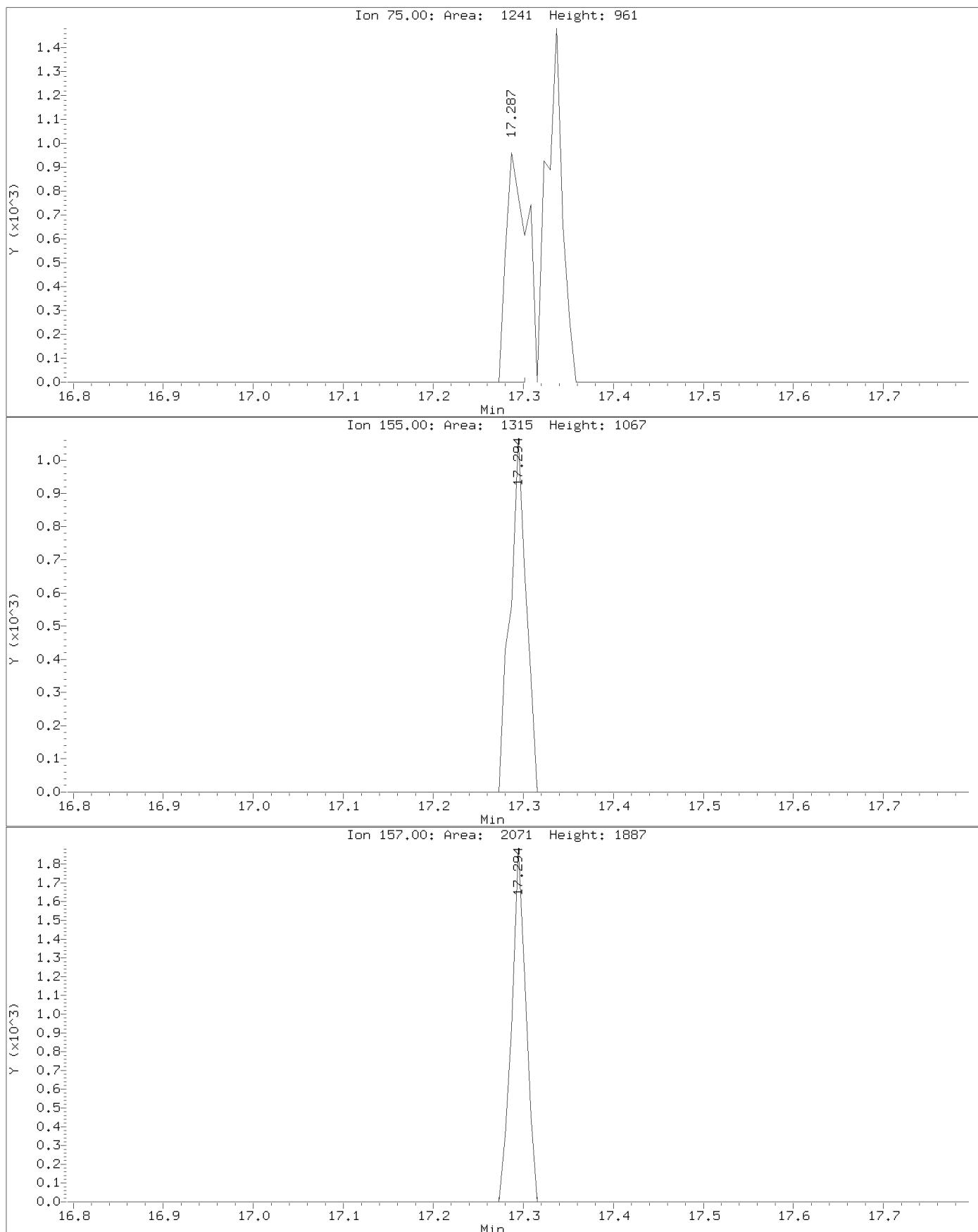
Instrument: gcms-t.i

Client Sample ID:

Compound: 1,2-Dibromo-3-Chloropropane

CAS Number: 96-12-8

## BEFORE MANUAL INTEGRATION



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Injection Date: 11-JUN-2015 18:22

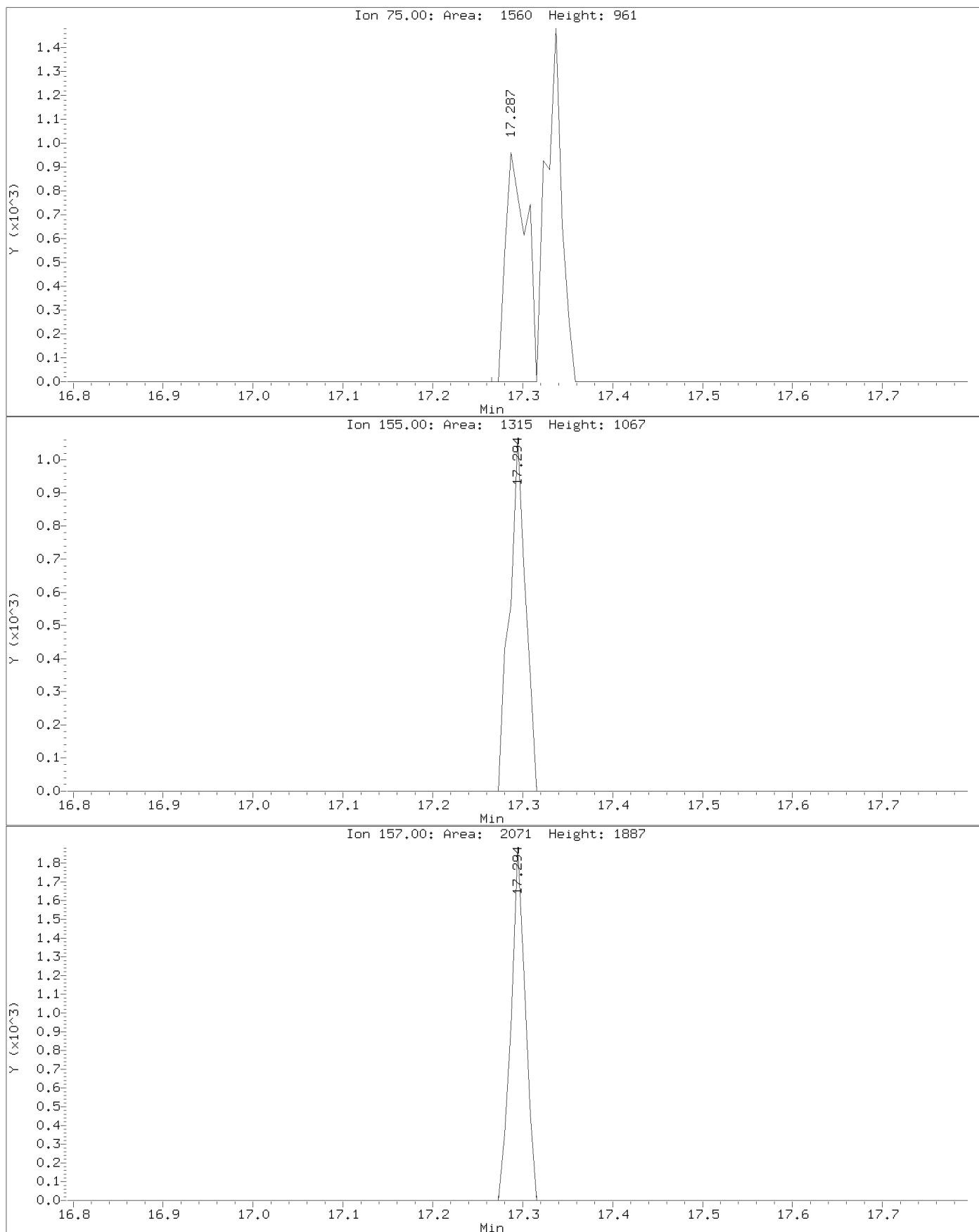
Instrument: gcms-t.i

Client Sample ID:

Compound: 1,2-Dibromo-3-Chloropropane

CAS Number: 96-12-8

## AFTER MANUAL INTEGRATION



Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817A.D  
Report Date: 12-Jun-2015 08:25

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817A.D  
Lab Smp Id: WG164633-7 Client Smp ID: Independent Source  
Inj Date : 11-JUN-2015 19:33 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-7  
Misc Info : WG164633, WG164633-4  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 12 QC Sample: INDSOURCE  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						ON-COLUMN ( ug/l)	FINAL ( ug/l)	REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	=====			
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		199484	51.5151		51.5		
2 Chloromethane	50	2.285	2.279 (0.297)		297675	52.2873		52.3		
3 Vinyl chloride	62	2.378	2.379 (0.309)		274412	49.0124		49.0		
4 Bromomethane	94	2.779	2.779 (0.361)		172430	50.6651		50.7		
5 Chloroethane	64	2.936	2.937 (0.381)		159439	46.8436		46.8		
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		355570	47.6459		47.6		
7 Diethyl Ether	59	3.537	3.537 (0.459)		233463	48.8343		48.8		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		745916	261.432		261		
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		259889	47.1780		47.2		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		864860	58.2395		58.2		
11 Freon-113	151	3.866	3.866 (0.502)		159473	42.3085		42.3		
12 Iodomethane	142	4.009	4.009 (0.520)		194494	43.8476		43.8		
13 Acrolein	56	4.295	4.295 (0.557)		341585	272.816		273		
14 Methylene Chloride	84	4.652	4.653 (0.604)		314467	47.0586		47.0		
15 Acetone	43	4.731	4.717 (0.614)		88710	46.7194		46.7		
16 Isobutyl Alcohol	43	7.898	7.899 (1.025)		157722	937.934		938		
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		286704	48.5000		48.5		
18 Allyl Chloride	41	4.495	4.495 (0.583)		343717	46.8858		46.9		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		1594637	109.718		110		
20 Acetonitrile	39	5.374	5.375 (0.698)		71597	483.021		483		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		769919	52.3383		52.3		
22 Chloroprene	53	5.718	5.711 (0.742)		371404	49.0453		49.0		
23 Propionitrile	54	7.627	7.620 (0.990)		517463	557.835		558		
24 Methacrylonitrile	41	7.655	7.656 (0.994)		1960178	548.327		548		

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817A.D  
 Report Date: 12-Jun-2015 08:25

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		487816	49.4544	49.4	
26 Acrylonitrile	52	5.810	5.811 (0.754)		635513	276.365	276	
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		745916	52.2865	52.3	
28 Vinyl Acetate	43	6.104	6.104 (0.727)		619404	43.9604	44.0	
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		319569	43.6588	43.6	
M 30 1,2-Dichloroethylene (total)	96				606273	92.1587	92.2	
31 Methyl Methacrylate	41	9.314	9.315 (1.110)		262215	57.0151	57.0	
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		265708	41.3035	41.3	
33 Bromochloromethane	128	6.740	6.740 (0.875)		145772	45.1223	45.1	
34 Chloroform	83	6.847	6.848 (0.889)		462277	46.3275	46.3	
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		309430	47.7088	47.7	
36 Tetrahydrofuran	42	7.047	7.041 (0.915)		99143	53.7074	53.7	
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		293072	50.5991	50.6	
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		375329	46.9402	46.9	
39 1,1-Dichloropropene	75	7.269	7.270 (0.866)		381671	48.8550	48.8	
40 2-Butanone	43	7.248	7.241 (0.941)		141074	47.8230	47.8	
41 Benzene	78	7.591	7.591 (0.905)		1167197	49.7150	49.7	
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		632200	50.0000		
43 Cyclohexane	56	6.740	6.740 (0.875)		373282	46.1804	46.2	
44 Ethyl Methacrylate	69	10.994	10.995 (1.310)		438626	55.2516	55.2	
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		310808	50.5003	50.5	
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		704096	51.6683	51.7	
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		350103	47.6602	47.7	
48 Trichloroethene	95	8.349	8.349 (0.995)		288570	47.9126	47.9	
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		978663	50.0000		
50 Dibromomethane	93	8.892	8.886 (1.060)		186606	47.8815	47.9	
51 1,2-Dichloropropane	63	9.021	9.021 (1.075)		285821	48.7490	48.7	
52 Bromodichloromethane	83	9.107	9.107 (1.085)		372751	50.3818	50.4	
53 cis-1,3-dichloropropene	75	9.929	9.922 (1.183)		458458	51.8215	51.8	
54 1,4-Dioxane	88	9.364	9.357 (1.116)		55609	528.366	528(R)	
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		1149166	52.6049	52.6	
56 2-Chloroethylvinylether	63	9.850	9.851 (1.174)		88326	85.8539	85.8(R)	
57 Toluene	92	10.236	10.237 (1.220)		723307	48.7287	48.7	
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		291257	54.4696	54.5	
59 Tetrachloroethene	164	10.737	10.737 (0.870)		257346	49.4135	49.4	
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		404273	54.9738	55.0	
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		244599	50.2437	50.2	
62 Dibromochloromethane	129	11.230	11.224 (0.910)		311182	52.3268	52.3	
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		500781	51.0646	51.1	
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		307611	51.5521	51.6	
65 2-Hexanone	43	11.902	11.903 (0.964)		205498	55.3626	55.4	
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		860913	50.0000		
67 Chlorobenzene	112	12.374	12.368 (1.002)		829868	48.9842	49.0	
68 1-Chlorohexane	91	12.353	12.353 (1.001)		359178	42.9302	42.9	
69 Ethylbenzene	106	12.417	12.418 (1.006)		440749	47.8816	47.9	
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		274364	49.6784	49.7	
M 71 Xylenes (total)	106				1566093	144.899	145	
72 m+p-Xylenes	106	12.646	12.647 (1.024)		1043433	94.9656	95.0	
73 o-Xylene	106	13.290	13.290 (1.076)		522660	49.9335	49.9	
74 Styrene	104	13.368	13.369 (1.083)		894634	50.2989	50.3	
75 Bromoform	173	13.397	13.397 (1.085)		240688	54.7046	54.7	
76 Isopropylbenzene	105	13.754	13.755 (0.877)		1263183	50.9691	51.0	
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.686)		418089	48.0997	48.1	
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		111072	53.5283	53.5	

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		96496	55.5144	55.5	
80 Bromobenzene	156	14.291	14.291 (0.911)		364622	49.2211	49.2	
81 N-Propylbenzene	91	14.348	14.348 (0.915)		1496216	51.5130	51.5	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		428841	53.3988	53.4	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		1076624	49.0127	49.0	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		907371	50.9287	50.9	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		350771	54.3700	54.4	
86 4-Chlorotoluene	91	14.784	14.785 (0.943)		951742	48.7705	48.8	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		1101310	50.3446	50.3	
88 Pentachloroethane	117	15.084	15.085 (0.962)		221672	46.4813	46.5	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		1132464	51.3210	51.3	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		1210458	50.3312	50.3	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		674316	48.5984	48.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		467309	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		696242	48.4966	48.5	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		1059170	47.9339	47.9	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		1365691	50.4909	50.5	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		660687	49.0122	49.0	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		89208	54.6958	54.7	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		516931	45.6936	45.7	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		200271	45.3579	45.4	
100 1,2,4-Trichlorobenzene	180	18.145	18.145 (1.157)		507484	48.3690	48.4	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		1167248	49.4987	49.5	
102 Naphthalene	128	18.552	18.553 (1.183)		1453427	56.9850	57.0	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		481741	46.2836	46.3	
104 Methyl Acetate	43	4.910	4.910 (0.637)		281379	53.8458	53.8	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		441096	44.9525	45.0	
M 106 Total Alkylbenzenes	100				8441933	350.947	351	

### QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target-server\gg\chem\goms-t.i\T061115.b\T3817A.D  
Date : 11-JUN-2015 19:33

Client ID: Independent Source  
Sample Info: WB164633-7  
Purge Volume: 5.0

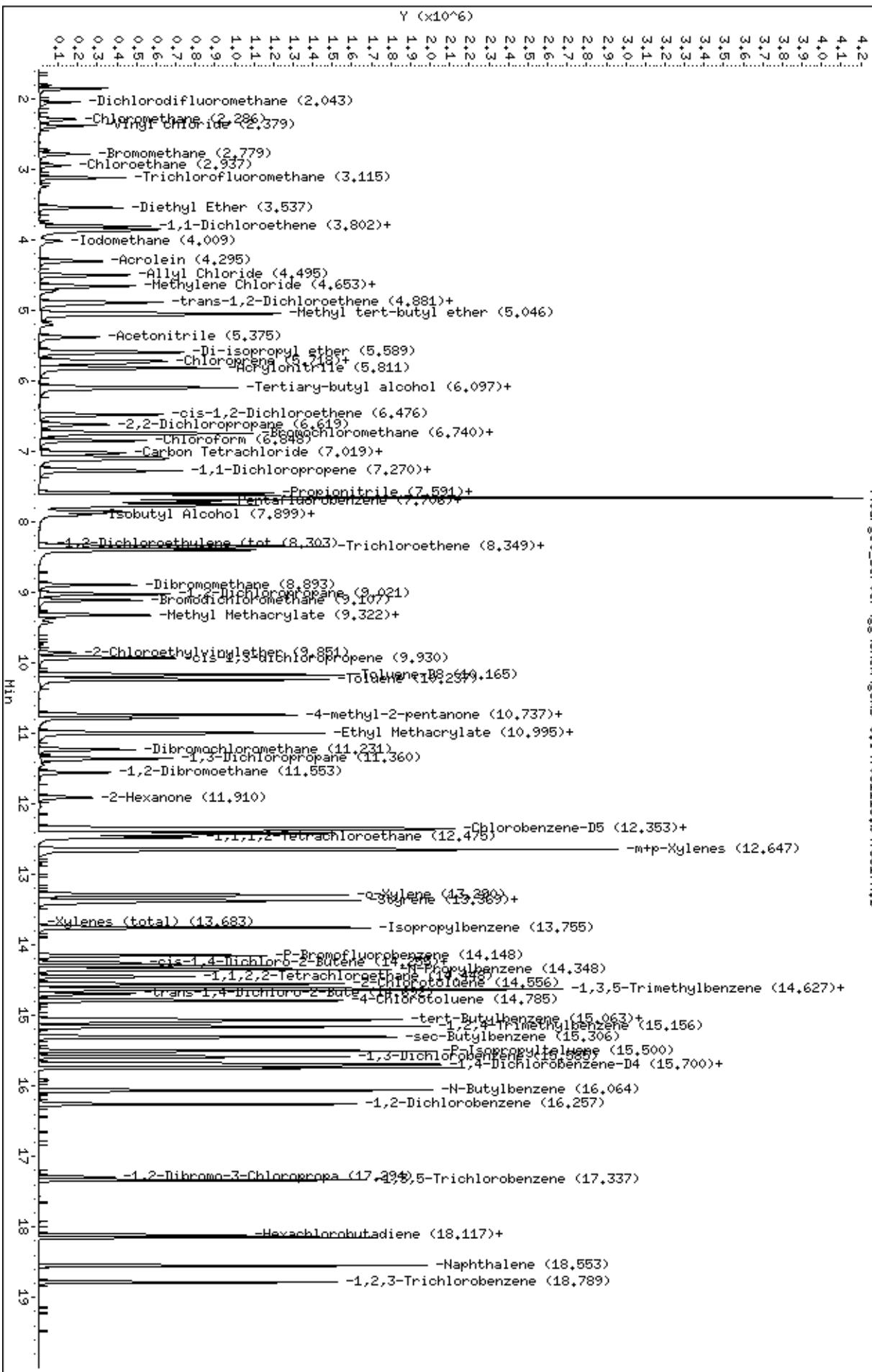
Column Phase: RTX-VHS

Instrument: goms-t.i

Operator: EME

Column diameter: 0.18

\\target-server\gg\chem\goms-t.i\T061115.b\T3817A.D



Data File: \\target\_server\gg\chem\goms-t.i\T061115.b\TB909.D

Page 2

Date : 11-JUN-2015 11:44

Client ID:

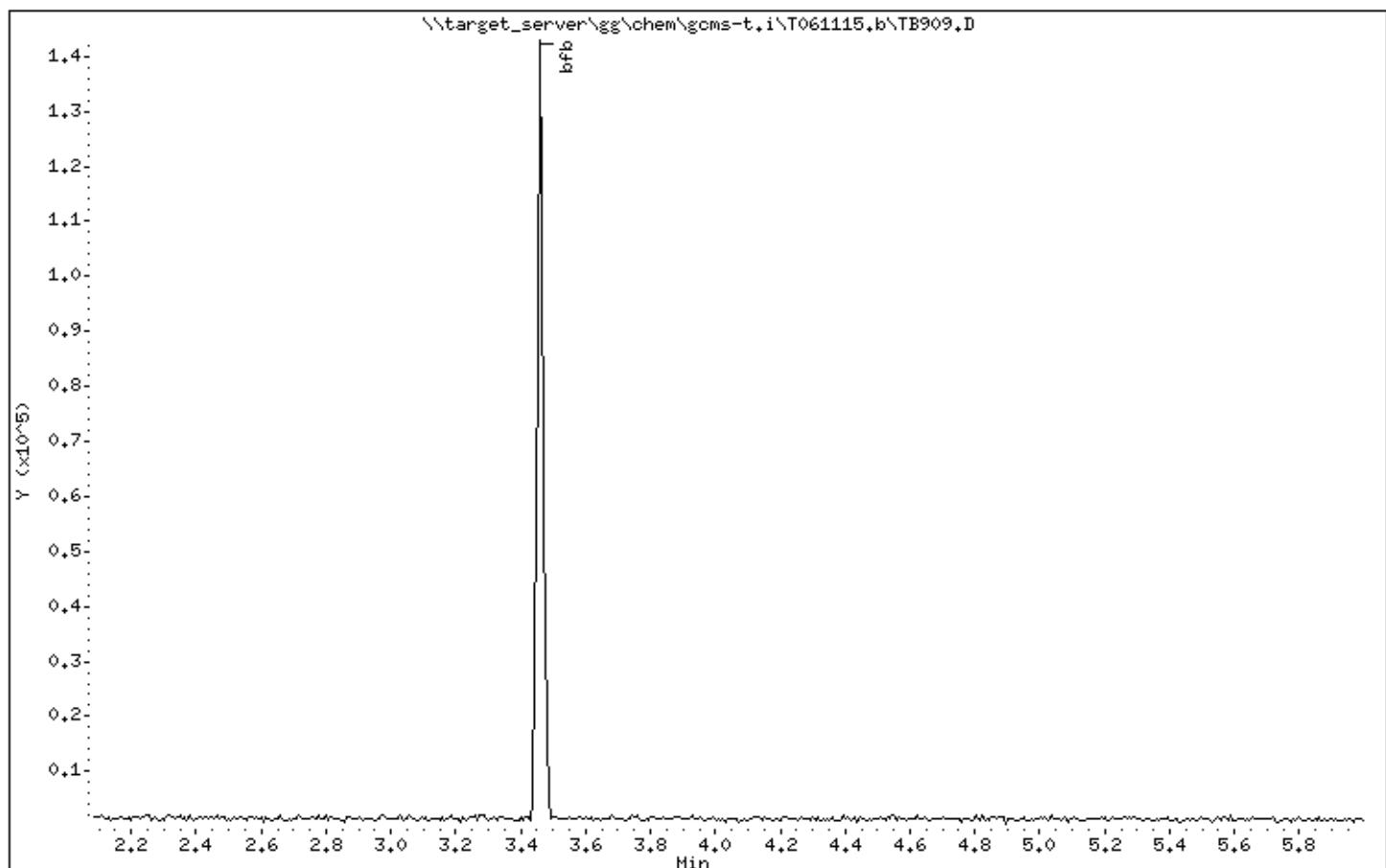
Instrument: goms-t.i

Sample Info: WG164633-10,SI3999

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Date : 11-JUN-2015 11:44

Client ID:

Instrument: goms-t.i

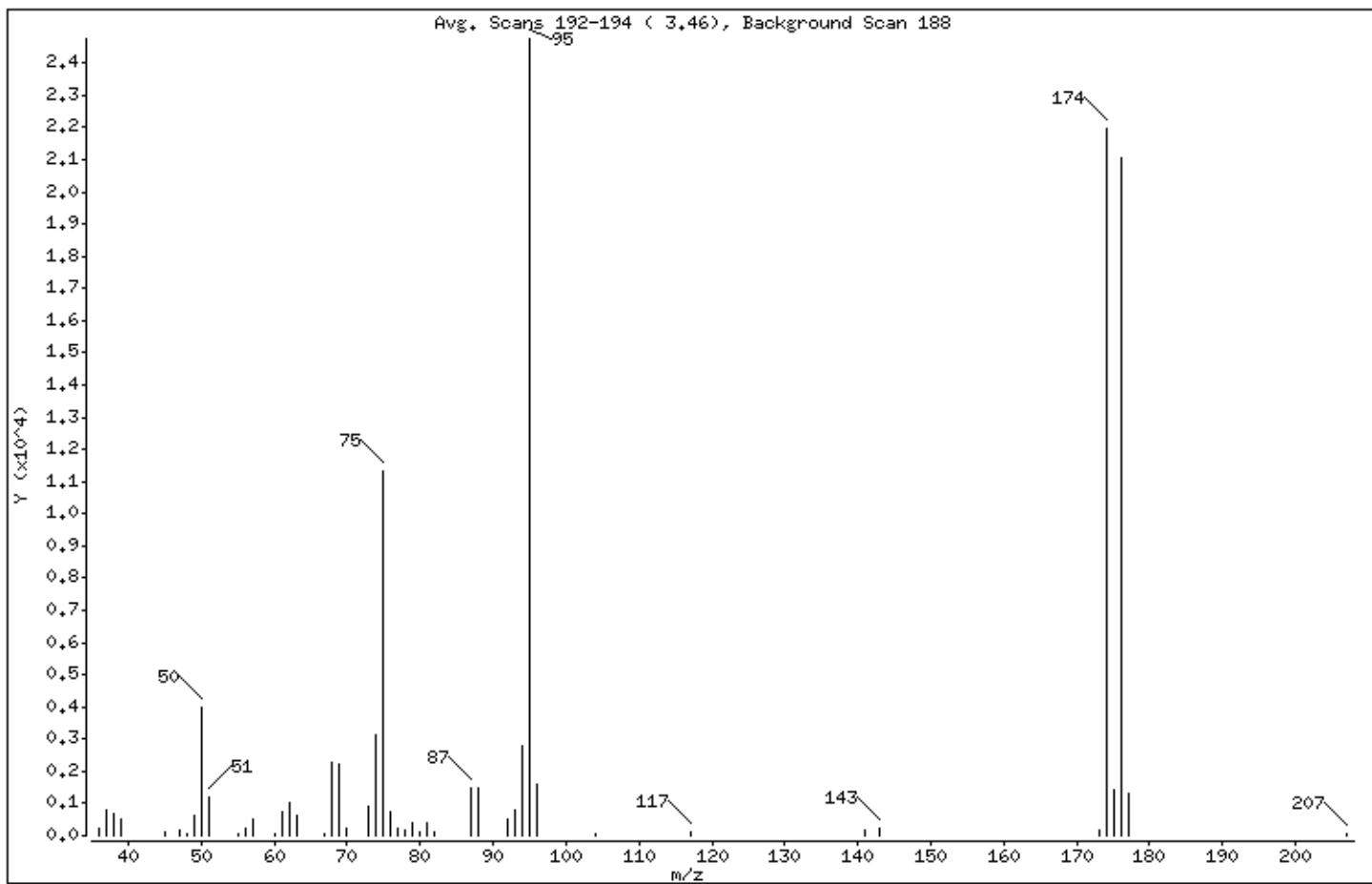
Sample Info: WG164633-10,SI3999

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	15.00 - 40.00% of mass 95	16.07	
75	30.00 - 60.00% of mass 95	45.72	
96	5.00 - 9.00% of mass 95	6.41	
173	Less than 2.00% of mass 174	0.59 (< 0.66)	
174	Greater than 50.00% of mass 95	88.66	
175	5.00 - 9.00% of mass 174	5.71 (< 6.44)	
176	95.00 - 101.00% of mass 174	95.01 (< 95.88)	
177	5.00 - 9.00% of mass 176	5.19 (< 6.11)	

Date : 11-JUN-2015 11:44

Client ID:

Instrument: goms-t.i

Sample Info: WG164633-10,SI3999

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: TB909.D

Spectrum: Avg. Scans 192-194 ( 3,46), Background Scan 188

Location of Maximum: 95.00

Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	214	60.00	80	78.00	158	117.00	89
37.00	776	61.00	741	79.00	373	141.00	168
38.00	684	62.00	1017	80.00	93	143.00	217
39.00	485	63.00	647	81.00	409	173.00	145
45.00	112	67.00	75	82.00	99	174.00	21952
47.00	182	68.00	2286	87.00	1455	175.00	1413
48.00	75	69.00	2232	88.00	1453	176.00	21048
49.00	649	70.00	214	92.00	529	177.00	1286
50.00	3978	73.00	903	93.00	775	207.00	70
51.00	1190	74.00	3117	94.00	2769		
55.00	73	75.00	11320	95.00	24760		
56.00	247	76.00	762	96.00	1588		
57.00	535	77.00	227	104.00	81		

## **Raw QC Data Section**

## Report of Analytical Results

**Client:**  
**Lab ID:** WG164633-9  
**Client ID:** Method Blank Sample  
**Project:**  
**SDG:** SI3999  
**Lab File ID:** T3820.D

**Sample Date:**  
**Received Date:**  
**Extract Date:** 11-JUN-15  
**Extracted By:** EME  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG164633

**Analysis Date:** 11-JUN-15  
**Analyst:** EME  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
<b>Methylene Chloride</b>	J	2.7	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

## Report of Analytical Results

**Client:**  
**Lab ID:** WG164633-9  
**Client ID:** Method Blank Sample  
**Project:**  
**SDG:** SI3999  
**Lab File ID:** T3820.D

**Sample Date:**  
**Received Date:**  
**Extract Date:** 11-JUN-15  
**Extracted By:** EME  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG164633

**Analysis Date:** 11-JUN-15  
**Analyst:** EME  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		105.	%					
Toluene-d8		113.	%					
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		111.	%					

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3820.D  
Report Date: 12-Jun-2015 08:24

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3820.D  
Lab Smp Id: WG164633-9 Client Smp ID: WG164633-Blank  
Inj Date : 11-JUN-2015 21:19 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-9, SI3999  
Misc Info : WG164633, WG164633-4, SI3999-1  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 15 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						ON-COLUMN ( ug/l)	FINAL ( ug/l)	REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	=====			
14 Methylene Chloride	84	4.652	4.653	(0.604)	15960	2.73054	2.7(a)			
\$ 37 Dibromofluoromethane	113	7.083	7.084	(0.919)	288369	55.6034	55.6			
* 42 Pentafluorobenzene	168	7.705	7.706	(1.000)	566070	50.0000				
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	311407	56.5086	56.5			
* 49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	852435	50.0000				
\$ 55 Toluene-D8	98	10.165	10.165	(1.211)	1072321	56.3560	56.4			
* 66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	812482	50.0000				
\$ 77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	397440	52.4949	52.5			
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	437151	50.0000				

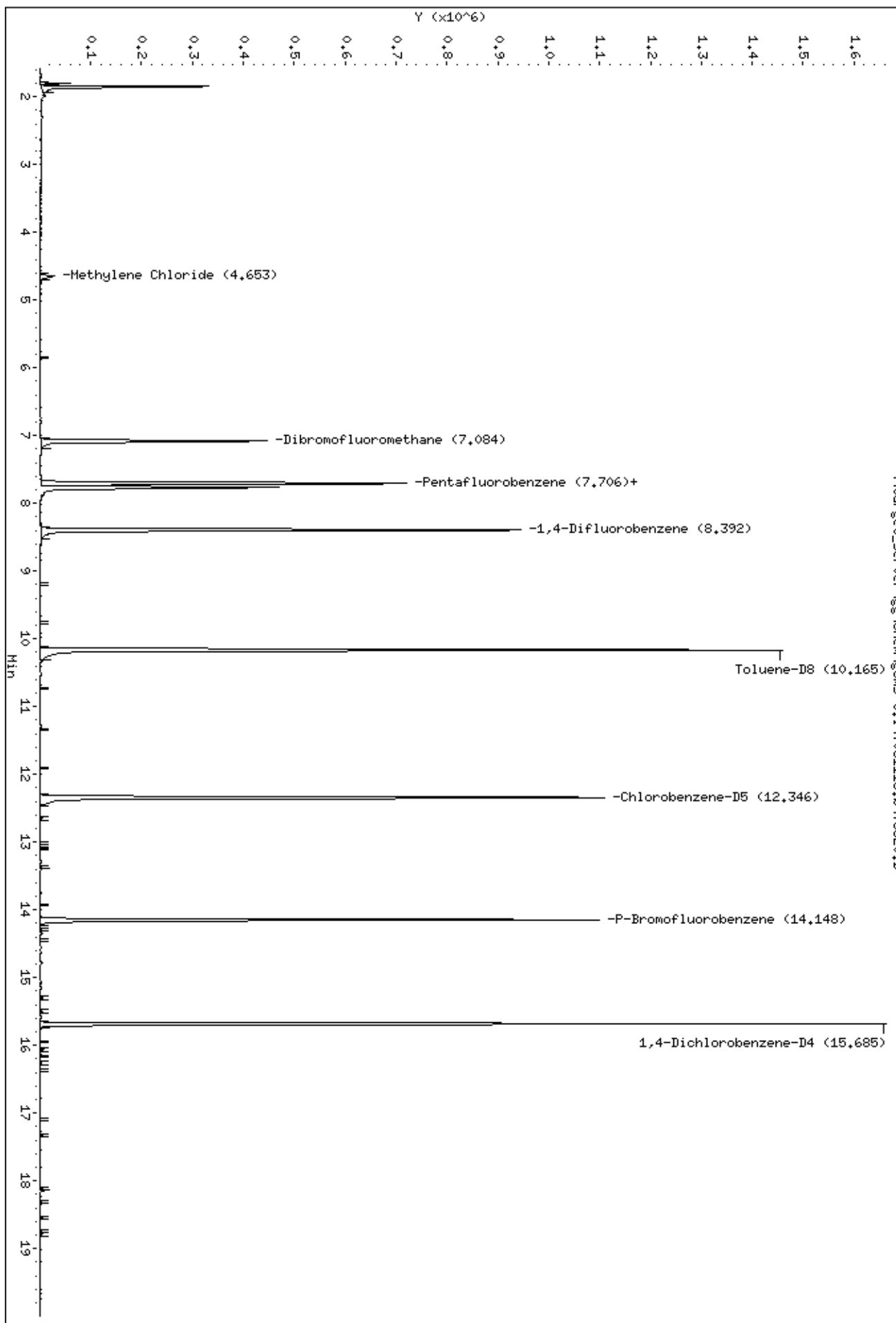
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\target-server\gg\chem\goms-t.i\T06115.b\T3820.D  
Date : 11-JUN-2015 21:19  
Client ID: WG164633-Blank  
Sample Info: WG164633-9, S1399

\\target-server\gg\chem\goms-t.i\T06115.b\T3820.D

Instrument: goms-t.i



Data File: \\target\_server\gg\chem\goms-t.i\T061115.b\T3820.D

Date : 11-JUN-2015 21:19

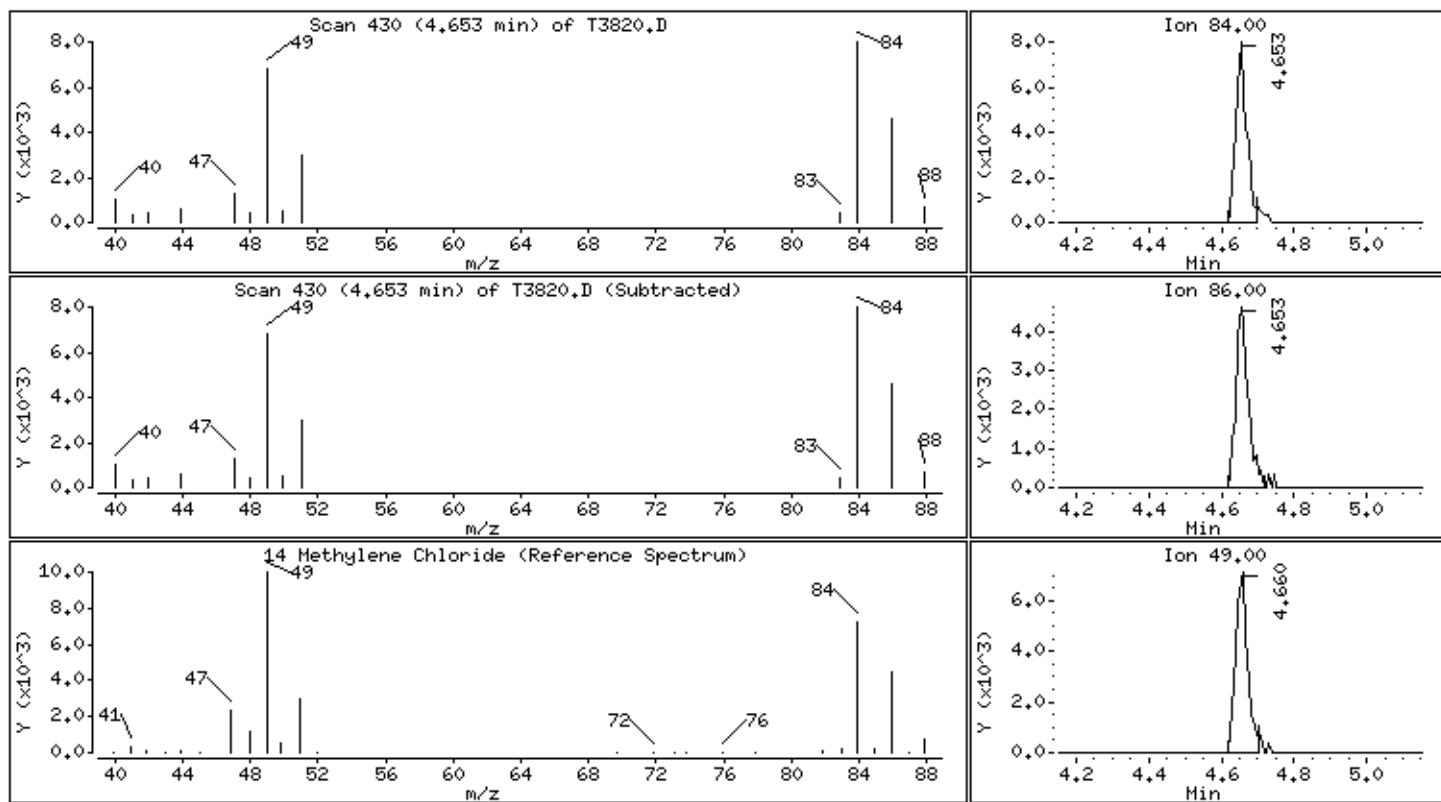
Client ID: WG164633-Blank

Instrument: goms-t.i

Sample Info: WG164633-9,SI3999

14 Methylene Chloride

Concentration: 2.7 ug/l



## LCS Recovery Report

**Client:**  
**Lab ID:** WG164633-8  
**Client ID:** LCS  
**Project:**  
**SDG:** SI3999  
**LCS File ID:** T3817.D

**Sample Date:** 11-JUN-15  
**Received Date:** 11-JUN-15  
**Extract Date:** 11-JUN-15  
**Extracted By:** EME  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG164633

**Analysis Date:** 11-JUN-15  
**Analyst:** EME  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	103.	50.0	51.5	ug/L	30-155
Chloromethane	105.	50.0	52.3	ug/L	40-125
Vinyl Chloride	98.0	50.0	49.0	ug/L	50-145
Bromomethane	101.	50.0	50.7	ug/L	30-145
Chloroethane	93.6	50.0	46.8	ug/L	60-135
Trichlorofluoromethane	95.2	50.0	47.6	ug/L	60-145
1,1-Dichloroethene	94.4	50.0	47.2	ug/L	70-130
Carbon Disulfide	116.	50.0	58.2	ug/L	35-160
Freon-113	84.6	50.0	42.3	ug/L	73-126
Methylene Chloride	94.0	50.0	47.0	ug/L	55-140
Acetone	93.4	50.0	46.7	ug/L	40-140
trans-1,2-Dichloroethene	97.0	50.0	48.5	ug/L	60-140
Methyl tert-butyl Ether	110.	100.	110.	ug/L	65-125
1,1-Dichloroethane	98.8	50.0	49.4	ug/L	70-135
cis-1,2-Dichloroethene	87.2	50.0	43.6	ug/L	70-125
Chloroform	92.6	50.0	46.3	ug/L	65-135
1,1,1-Trichloroethane	93.8	50.0	46.9	ug/L	65-130
2-Butanone	95.6	50.0	47.8	ug/L	30-150
Cyclohexane	92.4	50.0	46.2	ug/L	71-133
Carbon Tetrachloride	95.4	50.0	47.7	ug/L	65-140
Benzene	99.4	50.0	49.7	ug/L	80-120
1,2-Dichloroethane	95.4	50.0	47.7	ug/L	70-130
Trichloroethene	95.8	50.0	47.9	ug/L	70-125
1,2-Dichloropropane	97.4	50.0	48.7	ug/L	75-125
Bromodichloromethane	101.	50.0	50.4	ug/L	75-120
cis-1,3-Dichloropropene	104.	50.0	51.8	ug/L	70-130
Toluene	97.4	50.0	48.7	ug/L	75-120
4-Methyl-2-Pentanone	109.	50.0	54.5	ug/L	60-135
trans-1,3-Dichloropropene	110.	50.0	55.0	ug/L	55-140
1,1,2-Trichloroethane	100.	50.0	50.2	ug/L	75-125
Tetrachloroethene	98.8	50.0	49.4	ug/L	45-150
Dibromochloromethane	105.	50.0	52.3	ug/L	60-135
2-Hexanone	111.	50.0	55.4	ug/L	55-130
Chlorobenzene	98.0	50.0	49.0	ug/L	80-120
Ethylbenzene	95.8	50.0	47.9	ug/L	75-125

## LCS Recovery Report

**Client:**  
**Lab ID:**WG164633-8  
**Client ID:** LCS  
**Project:**  
**SDG:** SI3999  
**LCS File ID:** T3817.D

**Sample Date:**  
**Received Date:**  
**Extract Date:** 11-JUN-15  
**Extracted By:**EME  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG164633

**Analysis Date:** 11-JUN-15  
**Analyst:** EME  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	96.7	150.	145.	ug/L	89-116
Styrene	101.	50.0	50.3	ug/L	65-135
Bromoform	109.	50.0	54.7	ug/L	70-130
Isopropylbenzene	102.	50.0	51.0	ug/L	75-125
1,1,2,2-Tetrachloroethane	107.	50.0	53.4	ug/L	65-130
1,3-Dichlorobenzene	97.2	50.0	48.6	ug/L	75-125
1,4-Dichlorobenzene	97.0	50.0	48.5	ug/L	75-125
1,2-Dichlorobenzene	98.0	50.0	49.0	ug/L	70-120
1,2,4-Trichlorobenzene	96.8	50.0	48.4	ug/L	65-135
Methyl Acetate	108.	50.0	53.8	ug/L	70-132
Methylcyclohexane	90.0	50.0	45.0	ug/L	73-125
o-Xylene	99.8	50.0	49.9	ug/L	80-120
M+P-Xylenes	95.0	100.	95.0	ug/L	75-130
1,2-Dichloroethylene (Total)	92.2	100.	92.2	ug/L	84-121
1,2-Dibromoethane	103.	50.0	51.6	ug/L	80-120
1,2-Dibromo-3-Chloropropane	109.	50.0	54.7	ug/L	50-130
P-Bromofluorobenzene	96.2				75-120
Toluene-d8	105.				85-120
1,2-Dichloroethane-d4	101.				70-120
Dibromofluoromethane	101.				85-115

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817.D  
Report Date: 12-Jun-2015 08:23

Katahdin Analytical Services

Data file : \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817.D  
Lab Smp Id: WG164633-8 Client Smp ID: WG164633-LCS  
Inj Date : 11-JUN-2015 19:33 MS Autotune Date: 26-FEB-2015 07:23  
Operator : EME Inst ID: gcms-t.i  
Smp Info : WG164633-8, SI3999  
Misc Info : WG164633, WG164633-4, SI3999-1  
Comment : SW846 5030  
Method : \\target\_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m  
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD  
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D  
Als bottle: 12 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SW8260-S.sub  
Target Version: 4.12

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						ON-COLUMN ( ug/l)	FINAL ( ug/l)	REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	=====			
1 Dichlorodifluoromethane	85	2.042	2.043 (0.265)		199484	51.5151		51.5		
2 Chloromethane	50	2.285	2.279 (0.297)		297675	52.2873		52.3		
3 Vinyl chloride	62	2.378	2.379 (0.309)		274412	49.0124		49.0		
4 Bromomethane	94	2.779	2.779 (0.361)		172430	50.6651		50.7		
5 Chloroethane	64	2.936	2.937 (0.381)		159439	46.8436		46.8		
6 Trichlorofluoromethane	101	3.115	3.115 (0.404)		355570	47.6459		47.6		
7 Diethyl Ether	59	3.537	3.537 (0.459)		233463	48.8343		48.8		
8 Tertiary-butyl alcohol	59	6.089	6.090 (0.790)		745916	261.432		261		
9 1,1-Dichloroethene	96	3.801	3.802 (0.493)		259889	47.1780		47.2		
10 Carbon Disulfide	76	3.844	3.845 (0.499)		864860	58.2395		58.2		
11 Freon-113	151	3.866	3.866 (0.502)		159473	42.3085		42.3		
12 Iodomethane	142	4.009	4.009 (0.520)		194494	43.8476		43.8		
13 Acrolein	56	4.295	4.295 (0.557)		341585	272.816		273		
14 Methylene Chloride	84	4.652	4.653 (0.604)		314467	47.0586		47.0		
15 Acetone	43	4.731	4.717 (0.614)		88710	46.7194		46.7		
16 Isobutyl Alcohol	43	7.898	7.899 (1.025)		157722	937.934		938		
17 trans-1,2-Dichloroethene	96	4.881	4.889 (0.633)		286704	48.5000		48.5		
18 Allyl Chloride	41	4.495	4.495 (0.583)		343717	46.8858		46.9		
19 Methyl tert-butyl ether	73	5.045	5.046 (0.655)		1594637	109.718		110		
20 Acetonitrile	39	5.374	5.375 (0.698)		71597	483.021		483		
21 Di-isopropyl ether	45	5.589	5.589 (0.725)		769919	52.3383		52.3		
22 Chloroprene	53	5.718	5.711 (0.742)		371404	49.0453		49.0		
23 Propionitrile	54	7.627	7.620 (0.990)		517463	557.835		558		
24 Methacrylonitrile	41	7.655	7.656 (0.994)		1960178	548.327		548		

Data File: \\target\_server\gg\chem\gcms-t.i\T061115.b\T3817.D  
 Report Date: 12-Jun-2015 08:23

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
25 1,1-Dichloroethane	63	5.746	5.747 (0.746)		487816	49.4544	49.4	
26 Acrylonitrile	52	5.810	5.811 (0.754)		635513	276.365	276	
27 Ethyl tertiary-butyl ether	59	6.089	6.090 (0.790)		745916	52.2865	52.3	
28 Vinyl Acetate	43	6.104	6.104 (0.727)		619404	43.9604	44.0	
29 cis-1,2-Dichloroethene	96	6.475	6.476 (0.840)		319569	43.6588	43.6	
M 30 1,2-Dichloroethylene (total)	96				606273	92.1587	92.2	
31 Methyl Methacrylate	41	9.314	9.315 (1.110)		262215	57.0151	57.0	
32 2,2-Dichloropropane	77	6.618	6.619 (0.859)		265708	41.3035	41.3	
33 Bromochloromethane	128	6.740	6.740 (0.875)		145772	45.1223	45.1	
34 Chloroform	83	6.847	6.848 (0.889)		462277	46.3275	46.3	
35 Carbon Tetrachloride	117	7.019	7.019 (0.836)		309430	47.7088	47.7	
36 Tetrahydrofuran	42	7.047	7.041 (0.915)		99143	53.7074	53.7	
\$ 37 Dibromofluoromethane	113	7.083	7.084 (0.919)		293072	50.5991	50.6	
38 1,1,1-Trichloroethane	97	7.105	7.105 (0.922)		375329	46.9402	46.9	
39 1,1-Dichloropropene	75	7.269	7.270 (0.866)		381671	48.8550	48.8	
40 2-Butanone	43	7.248	7.241 (0.941)		141074	47.8230	47.8	
41 Benzene	78	7.591	7.591 (0.905)		1167197	49.7150	49.7	
* 42 Pentafluorobenzene	168	7.705	7.706 (1.000)		632200	50.0000		
43 Cyclohexane	56	6.740	6.740 (0.875)		373282	46.1804	46.2	
44 Ethyl Methacrylate	69	10.994	10.995 (1.310)		438626	55.2516	55.2	
\$ 45 1,2-Dichloroethane-D4	65	7.770	7.770 (1.008)		310808	50.5003	50.5	
46 Tertiary-amyl methyl ether	73	7.755	7.749 (1.006)		704096	51.6683	51.7	
47 1,2-Dichloroethane	62	7.855	7.856 (0.936)		350103	47.6602	47.7	
48 Trichloroethene	95	8.349	8.349 (0.995)		288570	47.9126	47.9	
* 49 1,4-Difluorobenzene	114	8.392	8.391 (1.000)		978663	50.0000		
50 Dibromomethane	93	8.892	8.886 (1.060)		186606	47.8815	47.9	
51 1,2-Dichloropropane	63	9.021	9.021 (1.075)		285821	48.7490	48.7	
52 Bromodichloromethane	83	9.107	9.107 (1.085)		372751	50.3818	50.4	
53 cis-1,3-dichloropropene	75	9.929	9.922 (1.183)		458458	51.8215	51.8	
54 1,4-Dioxane	88	9.364	9.357 (1.116)		55609	528.366	528	
\$ 55 Toluene-D8	98	10.165	10.165 (1.211)		1149166	52.6049	52.6	
56 2-Chloroethylvinylether	63	9.850	9.851 (1.174)		88326	85.8539	85.8(R)	
57 Toluene	92	10.236	10.237 (1.220)		723307	48.7287	48.7	
58 4-methyl-2-pentanone	43	10.730	10.730 (1.279)		291257	54.4696	54.5	
59 Tetrachloroethene	164	10.737	10.737 (0.870)		257346	49.4135	49.4	
60 trans-1,3-Dichloropropene	75	10.780	10.780 (1.285)		404273	54.9738	55.0	
61 1,1,2-Trichloroethane	83	10.987	10.988 (1.309)		244599	50.2437	50.2	
62 Dibromochloromethane	129	11.230	11.224 (0.910)		311182	52.3268	52.3	
63 1,3-Dichloropropane	76	11.359	11.360 (0.920)		500781	51.0646	51.1	
64 1,2-Dibromoethane	107	11.552	11.553 (1.377)		307611	51.5521	51.6	
65 2-Hexanone	43	11.902	11.903 (0.964)		205498	55.3626	55.4	
* 66 Chlorobenzene-D5	117	12.346	12.346 (1.000)		860913	50.0000		
67 Chlorobenzene	112	12.374	12.368 (1.002)		829868	48.9842	49.0	
68 1-Chlorohexane	91	12.353	12.353 (1.001)		359178	42.9302	42.9	
69 Ethylbenzene	106	12.417	12.418 (1.006)		440749	47.8816	47.9	
70 1,1,1,2-Tetrachloroethane	131	12.474	12.475 (1.010)		274364	49.6784	49.7	
M 71 Xylenes (total)	106				1566093	144.899	145	
72 m+p-Xylenes	106	12.646	12.647 (1.024)		1043433	94.9656	95.0	
73 o-Xylene	106	13.290	13.290 (1.076)		522660	49.9335	49.9	
74 Styrene	104	13.368	13.369 (1.083)		894634	50.2989	50.3	
75 Bromoform	173	13.397	13.397 (1.085)		240688	54.7046	54.7	
76 Isopropylbenzene	105	13.754	13.755 (0.877)		1263183	50.9691	51.0	
\$ 77 P-Bromofluorobenzene	95	14.148	14.148 (1.686)		418089	48.0997	48.1	
78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248 (0.908)		111072	53.5283	53.5	

Compounds	QUANT SIG	CONCENTRATIONS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692 (0.937)		96496	55.5144	55.5	
80 Bromobenzene	156	14.291	14.291 (0.911)		364622	49.2211	49.2	
81 N-Propylbenzene	91	14.348	14.348 (0.915)		1496216	51.5130	51.5	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448 (0.921)		428841	53.3988	53.4	
83 1,3,5-Trimethylbenzene	105	14.627	14.627 (0.933)		1076624	49.0127	49.0	
84 2-Chlorotoluene	91	14.555	14.556 (0.928)		907371	50.9287	50.9	
85 1,2,3-Trichloropropane	75	14.627	14.627 (0.933)		350771	54.3700	54.4	
86 4-Chlorotoluene	91	14.784	14.785 (0.943)		951742	48.7705	48.8	
87 tert-Butylbenzene	119	15.063	15.063 (0.960)		1101310	50.3446	50.3	
88 Pentachloroethane	117	15.084	15.085 (0.962)		221672	46.4813	46.5	
89 1,2,4-Trimethylbenzene	105	15.156	15.156 (0.966)		1132464	51.3210	51.3	
90 P-Isopropyltoluene	119	15.499	15.500 (0.988)		1210458	50.3312	50.3	
91 1,3-Dichlorobenzene	146	15.585	15.585 (0.994)		674316	48.5984	48.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685 (1.000)		467309	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707 (1.001)		696242	48.4966	48.5	
94 N-Butylbenzene	91	16.064	16.064 (1.024)		1059170	47.9339	47.9	
95 sec-Butylbenzene	105	15.306	15.306 (0.976)		1365691	50.4909	50.5	
96 1,2-Dichlorobenzene	146	16.257	16.257 (1.036)		660687	49.0122	49.0	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294 (1.103)		89208	54.6958	54.7	
98 1,3,5-Trichlorobenzene	180	17.337	17.337 (1.105)		516931	45.6936	45.7	
99 Hexachlorobutadiene	225	18.116	18.117 (1.155)		200271	45.3579	45.4	
100 1,2,4-Trichlorobenzene	180	18.145	18.145 (1.157)		507484	48.3690	48.4	
101 1,2,3-Trimethylbenzene	105	15.742	15.743 (1.004)		1167248	49.4987	49.5	
102 Naphthalene	128	18.552	18.553 (1.183)		1453427	56.9850	57.0	
103 1,2,3-Trichlorobenzene	180	18.788	18.789 (1.198)		481741	46.2836	46.3	
104 Methyl Acetate	43	4.910	4.910 (0.637)		281379	53.8458	53.8	
105 Methylcyclohexane	83	8.342	8.342 (1.083)		441096	44.9525	45.0	
M 106 Total Alkylbenzenes	100				8441933	350.947	351	

### QC Flag Legend

R - Spike/Surrogate failed recovery limits.

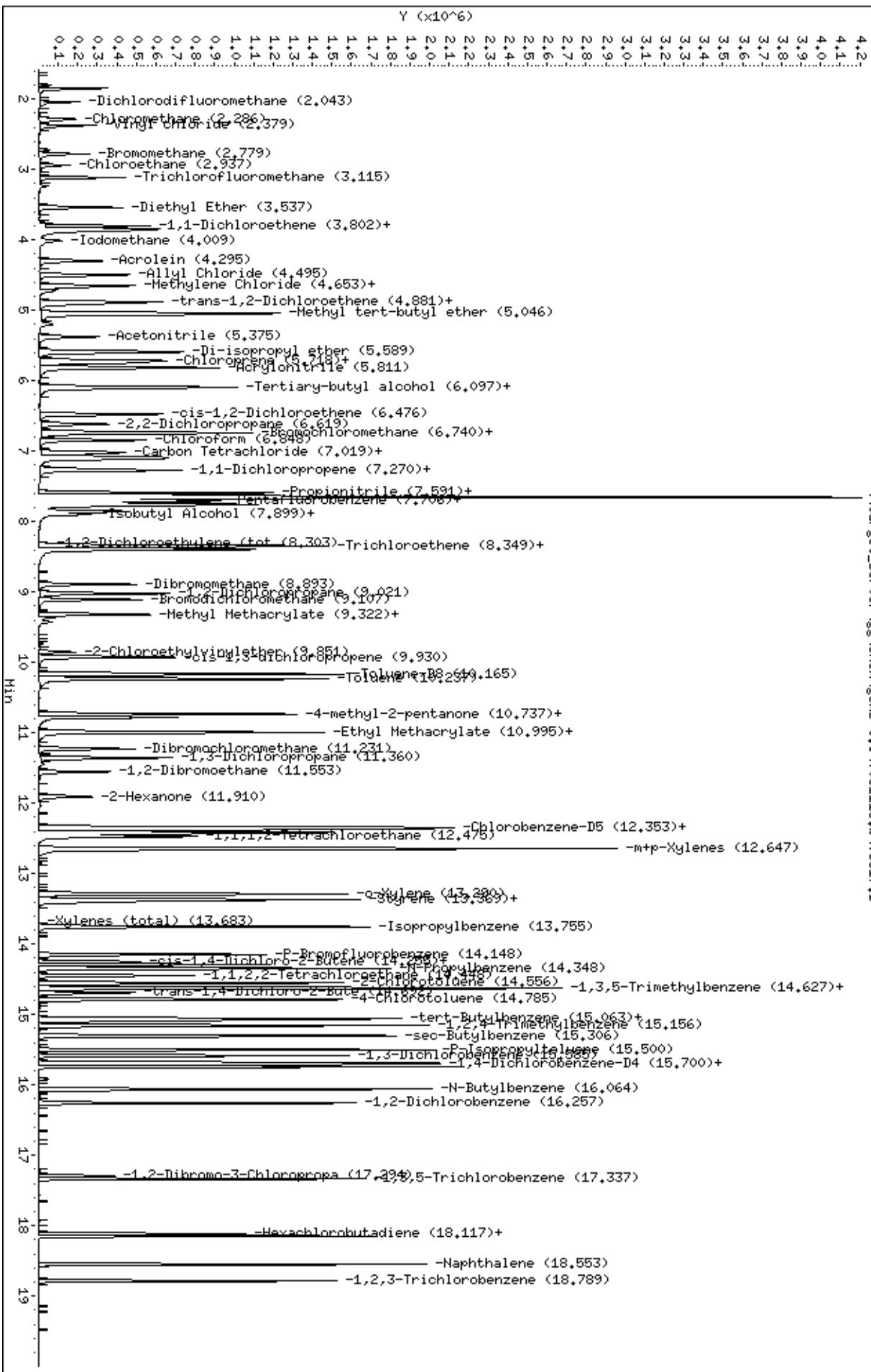
Data File: \\target-server\gg\chem\goms-t.i\T06115.b\T3817.D  
Date : 11-JUN-2015 19:33

Client ID: WG164633-LCS  
Sample Info: WG164633-8,SI3999  
Purge Volume: 5.0

Column Phase: RTX-VHS

Instrument: goms-t.i  
Operator: EME  
Column diameter: 0.18

\\target-server\gg\chem\goms-t.i\T06115.b\T3817.D



## **Logbooks and Supporting Documents**

## GCMS-T INSTRUMENT RUNLOG

## KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: Oct 11/15 / 11:49

SAMPLE NAME	DATAFILE	DF	ALSF#	METHOD	PREP METHOD	COLUMN	ANALYST	P/N	COMMENTS
50 mg BFB	-10 TB909	1	-1	VARIABLE			Y	EME	7
VSTD/OSOT11A	T3806	1	-1	T816AN06			Y		W6164633-4
↓ B	07	1	2				Y		-3
VSTD/OSOT11A	08	1	3				Y		-2
↓ 005	09	1	4				Y		
001	10	1	5				Y		curve -6
200	11	1	6				Y		useable -5
↓ 100	12	1	7				Y		-1
VSTD/OSOT11B	13	1	8				N		
↓ C	14	1	9				N		
↓ D	15	1	10				Y		
LCS A	16	1	11				N		
↓ B	17	1	12				Y		-7
VBK A	18	1	13				N		
↓ C	19	1	14				Y		MeCl <sub>2</sub> < PO <sub>2</sub>
SI4000-2	20	1	15	X			Y		
SI3999-1	A	21	16			X	Y		
-DL ABC	22	1	17				Y		18 5-40 mL
- 3DL ABC	23	8	18				Y		19 ✓ 23:41 ✓
SI4000-1	24	8	19				Y		
R <sub>1</sub> SC	25	1	20				Y		20 00:16 sec. RA
R <sub>1</sub> SC	26	1	21				Y		7
R <sub>1</sub> SC	27	1	22				N		
R <sub>1</sub> SC	28	1	23				N		
R <sub>1</sub> SC	29	1	24				N		
STANDARDS	CONC			STANDARD CONC	CODE				661214 REC
BFB	V9879			IS MIX	V9893				OLM 04.2
CAL. STD.	V9880			SS MIX	V9894				OLC 03.2
LCS/MS MIX	V9880								EPA 624
EXTRAS MIX	V9884								EPA 524

Circle Methods:

- (SW846 8260)
- (SW846 8260 SIM)
- (SW846 8260 SIM (heated purge))